# L A M P I R A N

## Lampiran 1. Hasil determinasi umbi bawang dayak

**PEMERINTAH PROVINSI JAWA TIMUR**
**DINAS KESEHATAN**
**UPT LABORATORIUM HERBAL**
**MATERIA MEDICA BATU**
Jl. Lahor 87 Kota Batu
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Nomor : 074/ 211/ 102.20-A/ 2022
Sifat : Biasa
Perihal : **Determinasi Tanaman Bawang Dayak**

Memenuhi permohonan saudara :

Nama : BERLIANA RAHMA FEBRIANTI
NIM : 24185659A
Fakultas : FARMASI, UNIVERSITAS SETIA BUDI

1. Perihal determinasi tanaman bawang dayak
   - Kingdom : Plantae (Tumbuhan)
   - Divisi : Spermatophyta
   - Kelas : Monocotyledonae
   - Ordo : Liliales
   - Famili : Liliaceae
   - Genus : Eleutherine
   - Spesies : *Eleutherine palmifolia* (L.) Merr.
   - Sinonim : *Eleutherine bulbosa, E. plicata* Herb., *E. americana* (Aubl.) Merr.
   - Nama Umum : Bawang sabrang, bawang tiwai, bawang dayak, bawang berlian, bawang kapal, bawang kambe, brambang sabrang.
   - Kunci determinasi : 1b-2b-3b-4b-12b-13b-14b-17b-18b-19b-20b-21b-22b-23b-24b-25b-26b-27a-28b-29b-30b-31a-32a-33b-35a-36d-37b-38b-39b-41b-42b-44b-45b-46e-50b-51b-53b-54b-56b-57b-58b-59d-72b-73b-74a-75b-76b-333b-334b-335a-336a-337b-338b-341b-342b-343b-344a:Liliaceae-1a-2a-3b-4a-5a:Eleutherine-9-1:*E.palmifolia*.
2. Morfologi : Habitus: Herba, semusim, tinggi 30-40 cm. Batang: Semu, umbi berlapis bulat telur, merah. Daun: Tunggal, bentuk pita, ujung dan pangkal runcing, tepi rata, hijau. Bunga: Majemuk, tumbuh di ujung batang, panjang tangkai ±40 cm, bentuk silindris, kelopak terdiri dari dua daun kelopak, hijau kekuningan, mahkota terdiri dari empat daun mahkota, lepas, panjang ±5 mm, putih, benang sari empat kepala sari kuning, putik bentuk jarum, panjang ±4 mm, putih kekuningan. Akar: Serabut, coklat muda.
3. Bagian yang digunakan : Umbi.
4. Penggunaan : Penelitian (Skripsi).
5. Daftar Pustaka
   - Backer, C.A. & Bakhuizen Van Den Brink, R.C. 1963. *Flora of Java (Spermatophytes Only)*. N.V.P. Noordhoff, Groningen.
   - Backer, C.A. & Bakhuizen Van Den Brink, R.C. 1968. *Flora of Java (Spermatophytes Only), Vol. III*. N.V.P. Noordhoff, Groningen.

Demikian surat keterangan determinasi ini kami buat untuk dipergunakan sebagaimana mestinya.

Batu, 14 Maret 2022
KEPALA UPT LABORATORIUM HERBAL
MATERIA MEDICA BATU

ACHMAD MABRUR, SKM, M.Kes.
PEMBINA
NIP. 19680203 199203 1 004

**Lampiran 2. Umbi bawang dayak**

Umbi bawang dayak segar

Umbi bawang dayak kering

Serbuk umbi bawang dayak


Ekstrak umbi bawang dayak

Proses evaporasi
umbi bawang dayak

Kadar air ekstrak
umbi bawang dayak

**Lampiran 3. Hasil perhitunagan susut pengeringan serbuk ekstrak umbi bawang dayak**

REPLIKASI 1

REPLIKASI 2

REPLIKASI 3

- **Replikasi 1**

$$= \frac{Bobot\ sebelum\ dikeringkan - Bobot\ setelah\ dikeringkan}{Bobot\ sebelum\ dikeringkan} \text{ X } 100\%$$

$$= \frac{2\ g - 1.84\ g}{2\ g} \text{ X } 100\%$$

= 8%

- **Replikasi 2**

$$= \frac{Bobot\ sebelum\ dikeringkan - Bobot\ setelah\ dikeringkan}{Bobot\ sebelum\ dikeringkan} \text{ X } 100\%$$

$$= \frac{2\ g - 1.83\ g}{2\ g} \text{ X } 100\%$$

= 8.5%

- **Replikasi 3**

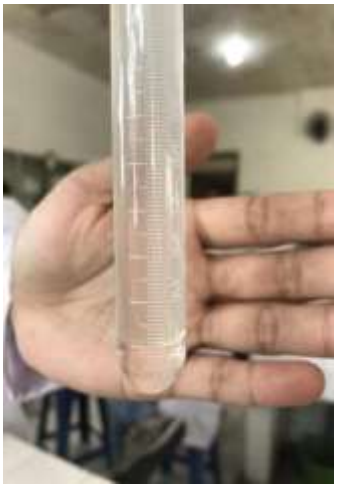
$$= \frac{Bobot\ sebelum\ dikeringkan - Bobot\ setelah\ dikeringkan}{Bobot\ sebelum\ dikeringkan} \text{ X } 100\%$$

$$= \frac{2\ g - 1.83\ g}{2\ g} \text{ X } 100\%$$

= 8.5%

**Lampiran 4. Hasil penetapan kadar air serbuk ekstrak umbi bawang dayak**

REPLIKASI 1



REPLIKASI 2

REPLIKASI 3

**Rumus :** $\frac{Volume\ terbaca\ (mL)}{Bobot\ serbuk\ (gram)}\ X\ 100\%$

- **Replikasi 1**

  = $\frac{0{,}9\ mL}{20\ gram}$ X 100% = 4,5%

- **Replikasi 2**

  = $\frac{0{,}9\ mL}{20\ gram}$ X 100% = 5%

- **Replikasi 3**

  = $\frac{0{,}9\ mL}{20\ gram}$ X 100% = 5%

**Rata-rata** = $\frac{kadar\ air\ 1+Kadar\ air\ 2+Kadar\ air\ 3}{3}$

= $\frac{4{,}5\%+5\%+5\%}{3}$

= 4,8%

**Lampiran 5. Perhitungan rendemen serbuk umbi bawang dayak**

$$\% \text{ rendemen serbuk umbi bawang dayak} = \frac{bobot\ serbuk\ setelah\ diayak}{bobot\ serbuk\ sebelum\ diayak} \times 100\%$$

$$= \frac{1000\ g}{12000\ g} \times 100\%$$

$$= 83{,}33\%$$

**Lampiran 6. Perhitungan rendemen ekstrak umbi bawang dayak**

% rendemen ekstrak umbi bawang dayak $= \frac{berat\ ekstrak}{bobot\ serbuk}$ x 100%

$= \frac{74\ g}{800\ g}$ x 100%

= 9,25%

**Lampiran 7. Hasil penetapan kadar air ekstrak umbi bawang dayak**

- **Replikasi 1**

Bobot krus porselin kosong = 40,8460 g
Bobot krus porselin + ekstrak sebelum di oven = 42,8480 g
Bobot awal = 42,8480 g – 40,8460 g
= 2,0020 g
Bobot krus porselin + ekstrak setelah di oven = 42,7328 g
Bobot akhir = 42,7328 g – 40,8460 g
= 1,8868 g

$$\text{Kadar air (\%)} = \frac{2,0020-1,8868}{1,8868} \times 100\%$$

= 6.11%

- **Replikasi 2**

Bobot krus porselin kosong = 39,8660 g
Bobot krus porselin + ekstrak sebelum di oven = 41,8840 g
Bobot awal = 41,8840 g – 39,8660 g
= 2,0024 g
Bobot krus porselin + ekstrak setelah di oven = 41,7549 g
Bobot akhir = 41,7549 g – 39,8660 g
= 1,8889 g

$$\text{Kadar air (\%)} = \frac{2,0024-1,8889}{1,8889} \times 100\%$$

= 6,01%

- **Replikasi 3**

Bobot krus porselin kosong = 39,1230 g
Bobot krus porselin + ekstrak sebelum di oven = 41,1248 g
Bobot awal = 41,1248 g – 39,1230 g
= 2,0018 g
Bobot krus porselin + ekstrak setelah di oven = 41,0100 g
Bobot akhir = 41,0100 g – 39,1230 g
= 1,8870 g

$$\text{Kadar air (\%)} = \frac{2,0018-1,8870}{1,8870} \times 100\%$$

= 6,07%

$$\textbf{Rata-rata} = \frac{kadar\ air\ 1+Kadar\ air\ 2+Kadar\ air\ 3}{3}$$

$$= \frac{46,11\%+6,01\%+6,07\%}{3}$$

= 6,07%

**Lampiran 8. Hasil perhitunagan susut pengeringan ekstrak umbi bawang dayak**

REPLIKASI 1

REPLIKASI 2

REPLIKASI 3

**Lampiran 9. Hasil Uji identifikasi senyawa kimia ekstrak umbi bawang dayak**

Uji alkaloid Mayer

Uji alkaloid Dragendorf

Uji saponin

Uji flavonoid


Uji tanin

Uji steroid

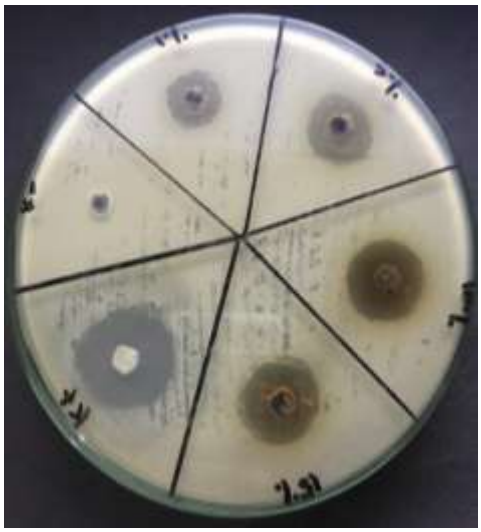
**Lampiran 10. Pembuatan konsentrasi larutan uji**


Larutan ekstrak umbi bawang dayak dengan pelarut DMSO 3%
Perhitungan:

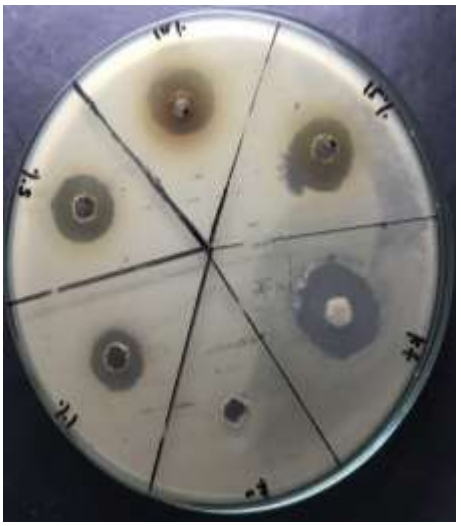
- Konsentrasi 1% = 1% b/v
  = 1 g/100 ml
  = 0,01 g/ml
- Konsentrasi 5% = 5% b/v
  = 5 g/100 ml
  = 0,05 g/ ml
- Konsentrasi 10% = 10% b/v
  = 10 g/100 ml
  = 1 g/ml
- Konsentrasi 15% = 15% b/v
  = 15 g/100 ml
  = 1,5 g/ml

**Lampiran 11. Hasil uji aktivitas antibakteri terhadap *Staphylococcus aureus* metode sumuran**

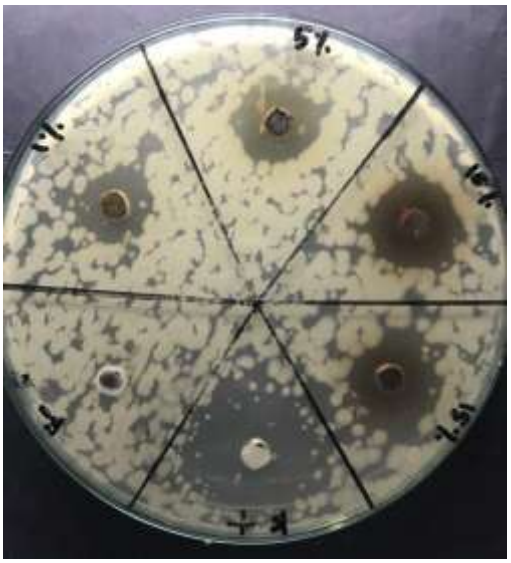
- Uji aktivitas antibakteri ekstrak umbi bawang dayak



REPLIKASI 1

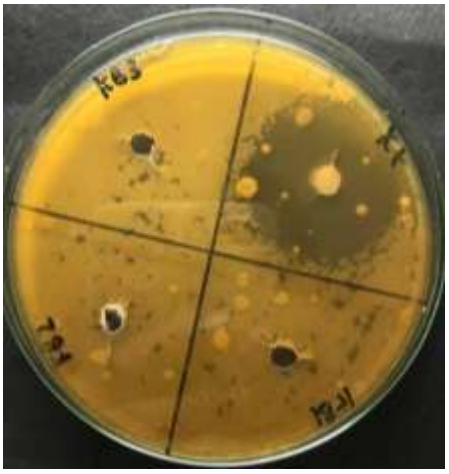


REPLIKASI 2

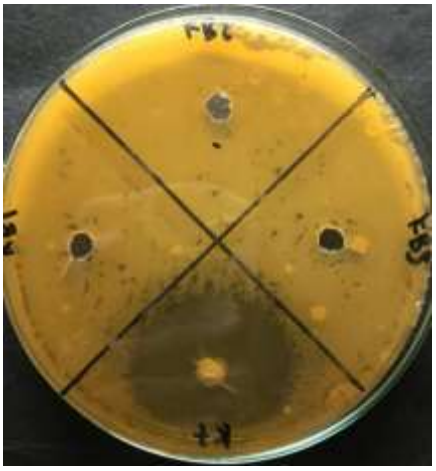


REPLIKASI 3

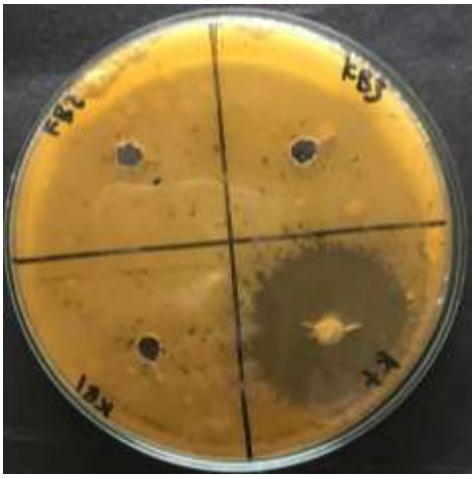
- Uji aktivitas antibakteri basis gel



REPLIKASI 1

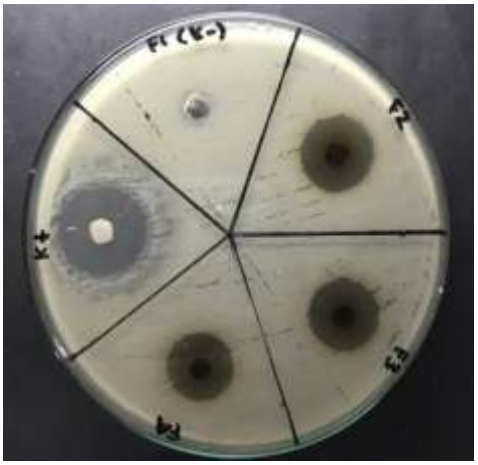


REPLIKASI 2

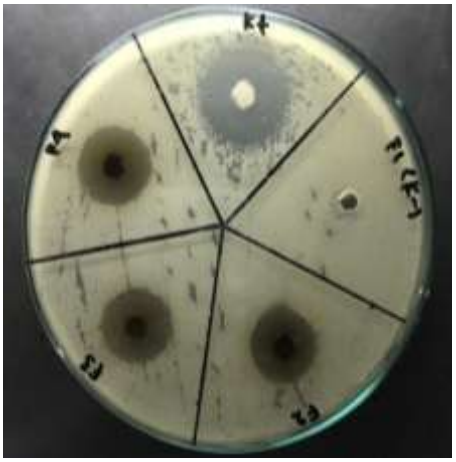


REPLIKASI 3

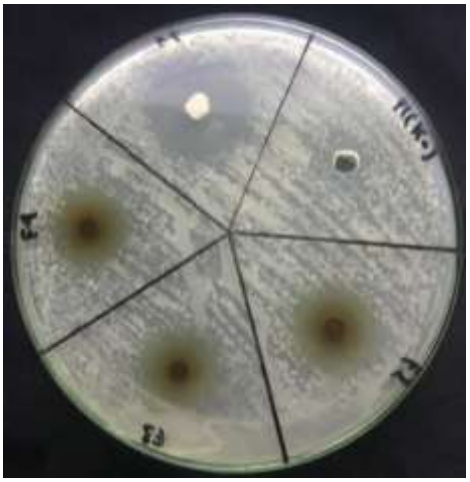
- Uji aktivitas antibakteri formula gel ekstrak umbi bawang dayak




REPLIKASI 1

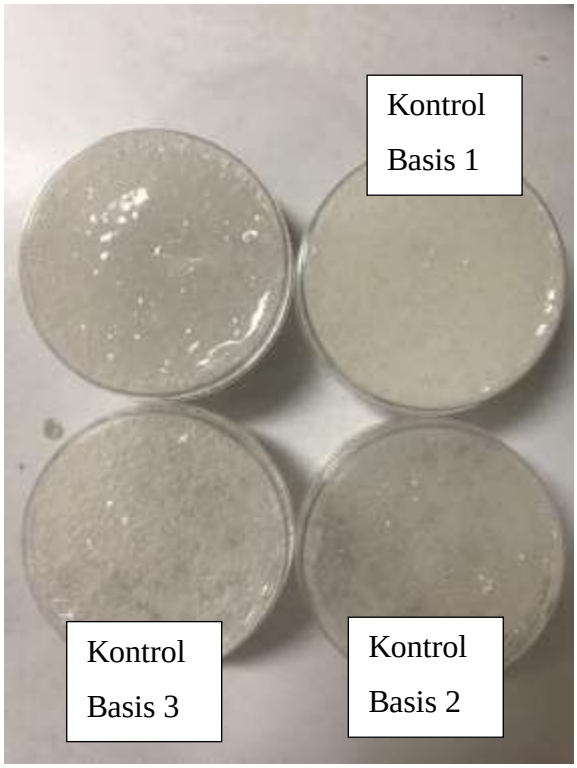


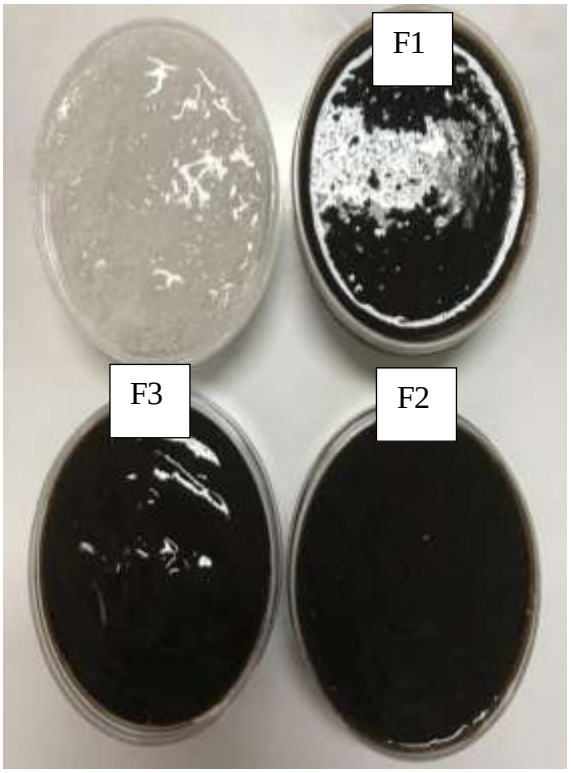

REPLIKASI 2




REPLIKASI 3

**Lampiran 12. Sediaan gel ekstrak umbi bawang Dayak**



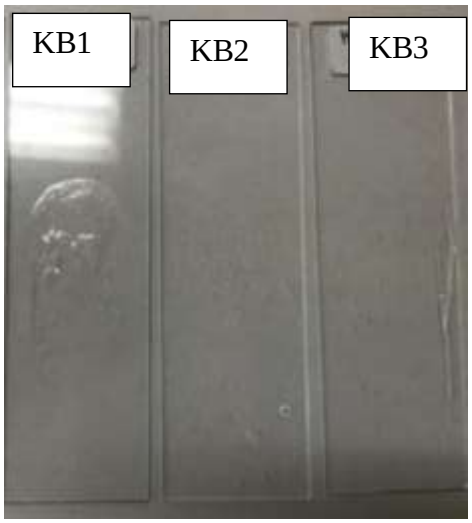
**Lampiran 13. Alat pengujian mutu fisik gel**

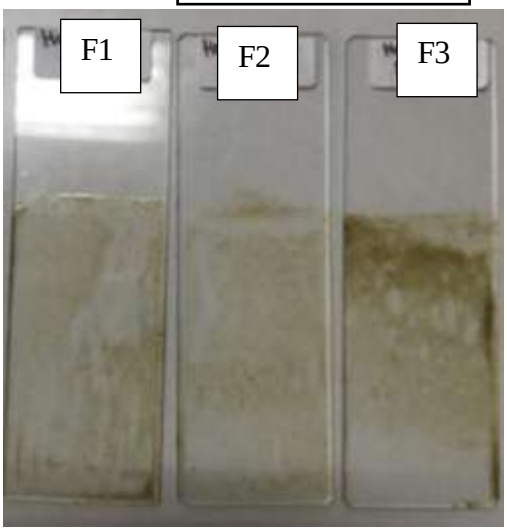
Viskositas

Daya lekat

Daya sebar

Ph meter




Homogenitas

## Lampiran 14. Data hasil uji mutu fisik pH sediaan gel ekstrak umbi bawang dayak

**Tests of Normality**

| | Sampel | Kolmogorov-Smirnov[a] | | | Shapiro-Wilk | | |
|---|---|---|---|---|---|---|---|
| | | Statistic | df | Sig. | Statistic | df | Sig. |
| MutuFisikPH | kontrol basis 1 | .175 | 3 | . | 1.000 | 3 | 1.000 |
| | kontrol basis 2 | .175 | 3 | . | 1.000 | 3 | 1.000 |
| | kontrol basis 3 | .292 | 3 | . | .923 | 3 | .463 |
| | formula 1 | .253 | 3 | . | .964 | 3 | .637 |
| | formula 2 | .292 | 3 | . | .923 | 3 | .463 |
| | formula 3 | .219 | 3 | . | .987 | 3 | .780 |

a. Lilliefors Significance Correction

**Test of Homogeneity of Variances**

| | | Levene Statistic | df1 | df2 | Sig. |
|---|---|---|---|---|---|
| MutuFisikPH | Based on Mean | .159 | 5 | 12 | .973 |
| | Based on Median | .075 | 5 | 12 | .995 |
| | Based on Median and with adjusted df | .075 | 5 | 10.894 | .995 |
| | Based on trimmed mean | .152 | 5 | 12 | .976 |

**ANOVA**

MutuFisikPH

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 3.213 | 5 | .643 | 1521.866 | .000 |
| Within Groups | .005 | 12 | .000 | | |
| Total | 3.218 | 17 | | | |

**Multiple Comparisons**

Dependent Variable: MutuFisikPH

Tukey HSD

| (I) Sampel | (J) Sampel | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| kontrol basis 1 | kontrol basis 2 | .23000* | .01678 | .000 | .1736 | .2864 |
| | kontrol basis 3 | .61333* | .01678 | .000 | .5570 | .6697 |
| | formula 1 | .81333* | .01678 | .000 | .7570 | .8697 |
| | formula 2 | 1.08667* | .01678 | .000 | 1.0303 | 1.1430 |
| | formula 3 | 1.15333* | .01678 | .000 | 1.0970 | 1.2097 |
| kontrol basis 2 | kontrol basis 1 | -.23000* | .01678 | .000 | -.2864 | -.1736 |
| | kontrol basis 3 | .38333* | .01678 | .000 | .3270 | .4397 |
| | formula 1 | .58333* | .01678 | .000 | .5270 | .6397 |
| | formula 2 | .85667* | .01678 | .000 | .8003 | .9130 |
| | formula 3 | .92333* | .01678 | .000 | .8670 | .9797 |
| kontrol basis 3 | kontrol basis 1 | -.61333* | .01678 | .000 | -.6697 | -.5570 |
| | kontrol basis 2 | -.38333* | .01678 | .000 | -.4397 | -.3270 |
| | formula 1 | .20000* | .01678 | .000 | .1436 | .2564 |
| | formula 2 | .47333* | .01678 | .000 | .4170 | .5297 |
| | formula 3 | .54000* | .01678 | .000 | .4836 | .5964 |
| formula 1 | kontrol basis 1 | -.81333* | .01678 | .000 | -.8697 | -.7570 |
| | kontrol basis 2 | -.58333* | .01678 | .000 | -.6397 | -.5270 |
| | kontrol basis 3 | -.20000* | .01678 | .000 | -.2564 | -.1436 |
| | formula 2 | .27333* | .01678 | .000 | .2170 | .3297 |
| | formula 3 | .34000* | .01678 | .000 | .2836 | .3964 |
| formula 2 | kontrol basis 1 | -1.08667* | .01678 | .000 | -1.1430 | -1.0303 |
| | kontrol basis 2 | -.85667* | .01678 | .000 | -.9130 | -.8003 |
| | kontrol basis 3 | -.47333* | .01678 | .000 | -.5297 | -.4170 |
| | formula 1 | -.27333* | .01678 | .000 | -.3297 | -.2170 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | formula 3 | .06667* | .01678 | .018 | .0103 | .1230 |
| formula 3 | kontrol basis 1 | -1.15333* | .01678 | .000 | -1.2097 | -1.0970 |
| | kontrol basis 2 | -.92333* | .01678 | .000 | -.9797 | -.8670 |
| | kontrol basis 3 | -.54000* | .01678 | .000 | -.5964 | -.4836 |
| | formula 1 | -.34000* | .01678 | .000 | -.3964 | -.2836 |
| | formula 2 | -.06667* | .01678 | .018 | -.1230 | -.0103 |

*. The mean difference is significant at the 0.05 level.

**MutuFisikPH**

Tukey HSD[a]

| Sampel | N | Subset for alpha = 0.05 | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 |
| formula 3 | 3 | 4.5267 | | | | | |
| formula 2 | 3 | | 4.5933 | | | | |
| formula 1 | 3 | | | 4.8667 | | | |
| kontrol basis 3 | 3 | | | | 5.0667 | | |
| kontrol basis 2 | 3 | | | | | 5.4500 | |
| kontrol basis 1 | 3 | | | | | | 5.6800 |
| Sig. | | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

# Lampiran 15. Data hasil uji mutu fisik viskositas sediaan gel ekstrak umbi bawang dayak

**Tests of Normality**

| | sampel | Kolmogorov-Smirnov[a] | | | Shapiro-Wilk | | |
|---|---|---|---|---|---|---|---|
| | | Statistic | df | Sig. | Statistic | df | Sig. |
| viskositas | kontrol basis 1 | .175 | 3 | . | 1.000 | 3 | 1.000 |
| | kontrol basis 2 | .288 | 3 | . | .929 | 3 | .484 |
| | kontrol basis 3 | .276 | 3 | . | .942 | 3 | .537 |
| | formula 1 | .227 | 3 | . | .983 | 3 | .747 |
| | formula 2 | .276 | 3 | . | .942 | 3 | .537 |
| | formula 3 | .276 | 3 | . | .942 | 3 | .537 |

a. Lilliefors Significance Correction

**Test of Homogeneity of Variances**

Viskositas

| Levene Statistic | df1 | df2 | Sig. |
|---|---|---|---|
| .646 | 5 | 12 | .670 |

**Multiple Comparisons**

Dependent Variable: viskositas

Tukey HSD

| (I) sampel | (J) sampel | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| kontrol basis 1 | kontrol basis 2 | -139.000* | 34.113 | .015 | -253.58 | -24.42 |
| | kontrol basis 3 | -300.000* | 34.113 | .000 | -414.58 | -185.42 |
| | formula 1 | 10.000 | 34.113 | 1.000 | -104.58 | 124.58 |
| | formula 2 | -100.000 | 34.113 | .101 | -214.58 | 14.58 |
| | formula 3 | -200.000* | 34.113 | .001 | -314.58 | -85.42 |
| kontrol basis 2 | kontrol basis 1 | 139.000* | 34.113 | .015 | 24.42 | 253.58 |
| | kontrol basis 3 | -161.000* | 34.113 | .005 | -275.58 | -46.42 |
| | formula 1 | 149.000* | 34.113 | .009 | 34.42 | 263.58 |
| | formula 2 | 39.000 | 34.113 | .854 | -75.58 | 153.58 |
| | formula 3 | -61.000 | 34.113 | .507 | -175.58 | 53.58 |
| kontrol basis 3 | kontrol basis 1 | 300.000* | 34.113 | .000 | 185.42 | 414.58 |
| | kontrol basis 2 | 161.000* | 34.113 | .005 | 46.42 | 275.58 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | formula 1 | 310.000* | 34.113 | .000 | 195.42 | 424.58 |
| | formula 2 | 200.000* | 34.113 | .001 | 85.42 | 314.58 |
| | formula 3 | 100.000 | 34.113 | .101 | -14.58 | 214.58 |
| formula 1 | kontrol basis 1 | -10.000 | 34.113 | 1.000 | -124.58 | 104.58 |
| | kontrol basis 2 | -149.000* | 34.113 | .009 | -263.58 | -34.42 |
| | kontrol basis 3 | -310.000* | 34.113 | .000 | -424.58 | -195.42 |
| | formula 2 | -110.000 | 34.113 | .063 | -224.58 | 4.58 |
| | formula 3 | -210.000* | 34.113 | .001 | -324.58 | -95.42 |
| formula 2 | kontrol basis 1 | 100.000 | 34.113 | .101 | -14.58 | 214.58 |
| | kontrol basis 2 | -39.000 | 34.113 | .854 | -153.58 | 75.58 |
| | kontrol basis 3 | -200.000* | 34.113 | .001 | -314.58 | -85.42 |
| | formula 1 | 110.000 | 34.113 | .063 | -4.58 | 224.58 |
| | formula 3 | -100.000 | 34.113 | .101 | -214.58 | 14.58 |
| formula 3 | kontrol basis 1 | 200.000* | 34.113 | .001 | 85.42 | 314.58 |
| | kontrol basis 2 | 61.000 | 34.113 | .507 | -53.58 | 175.58 |
| | kontrol basis 3 | -100.000 | 34.113 | .101 | -214.58 | 14.58 |
| | formula 1 | 210.000* | 34.113 | .001 | 95.42 | 324.58 |
| | formula 2 | 100.000 | 34.113 | .101 | -14.58 | 214.58 |

*. The mean difference is significant at the 0.05 level.

**viskositas**

Tukey HSD[a]

| sampel | N | Subset for alpha = 0.05 | | |
|---|---|---|---|---|
| | | 1 | 2 | 3 |
| formula 1 | 3 | 180.00 | | |
| kontrol basis 1 | 3 | 190.00 | | |
| formula 2 | 3 | 290.00 | 290.00 | |
| kontrol basis 2 | 3 | | 329.00 | |
| formula 3 | 3 | | 390.00 | 390.00 |
| kontrol basis 3 | 3 | | | 490.00 |
| Sig. | | .063 | .101 | .101 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

## Lampiran 16. Data hasil uji mutu fisik daya sebar sediaan gel ekstrak umbi bawang dayak

**Tests of Normality**

| | | Kolmogorov-Smirnov[a] | | | Shapiro-Wilk | | |
|---|---|---|---|---|---|---|---|
| | Sampel | Statistic | df | Sig. | Statistic | df | Sig. |
| DayaSebar | kontorl basis 1 bobot 0 | .354 | 3 | . | .821 | 3 | .166 |
| | kontrol basis 1 bobot 50 | .357 | 3 | . | .814 | 3 | .148 |
| | kontrol basis 1 bobot 100 | .343 | 3 | . | .844 | 3 | .225 |
| | kontrol basis 1 bobot 150 | .343 | 3 | . | .844 | 3 | .225 |
| | kontrol basis 2 bobot 0 | .337 | 3 | . | .855 | 3 | .253 |
| | kontrol basis 2 bobot 50 | .232 | 3 | . | .980 | 3 | .726 |
| | kontrol basis 2 bobot 100 | .385 | 3 | . | .750 | 3 | .000 |
| | kontrol basis 2 bobot 150 | .175 | 3 | . | 1.000 | 3 | 1.000 |
| | kontrol basis 3 bobot 0 | .289 | 3 | . | .927 | 3 | .478 |
| | kontrol basis 3 bobot 50 | .286 | 3 | . | .930 | 3 | .490 |
| | kontrol basis 3 bobot 100 | .298 | 3 | . | .915 | 3 | .437 |
| | kontrol basis 3 bobot 150 | .301 | 3 | . | .912 | 3 | .424 |
| | formula 1 bobot 0 | .314 | 3 | . | .893 | 3 | .363 |
| | formula 1 bobot 50 | .265 | 3 | . | .953 | 3 | .583 |
| | formula 1 bobot 100 | .287 | 3 | . | .929 | 3 | .485 |
| | formula 1 bobot 150 | .321 | 3 | . | .881 | 3 | .328 |
| | formula 2 bobot 0 | .340 | 3 | . | .848 | 3 | .235 |
| | formula 2 bobot 50 | .328 | 3 | . | .871 | 3 | .298 |
| | formula 2 bobot 100 | .319 | 3 | . | .885 | 3 | .339 |
| | formula 2 bobot 150 | .316 | 3 | . | .890 | 3 | .355 |
| | formula 3 bobot 0 | .328 | 3 | . | .871 | 3 | .298 |
| | formula 3 bobot 50 | .324 | 3 | . | .878 | 3 | .317 |
| | formula 3 bobot 100 | .292 | 3 | . | .923 | 3 | .463 |
| | formula 3 bobot 150 | .253 | 3 | . | .964 | 3 | .637 |

a. Lilliefors Significance Correction

**Test of Homogeneity of Variances**

| | | Levene Statistic | df1 | df2 | Sig. |
|---|---|---|---|---|---|
| DayaSebar | Based on Mean | 5.401 | 23 | 48 | .000 |
| | Based on Median | .590 | 23 | 48 | .914 |
| | Based on Median and with adjusted df | .590 | 23 | 14.227 | .874 |
| | Based on trimmed mean | 4.581 | 23 | 48 | .000 |

**ANOVA**

DayaSebar

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 50.597 | 23 | 2.200 | 33.800 | .000 |
| Within Groups | 3.124 | 48 | .065 | | |
| Total | 53.721 | 71 | | | |

## Multiple Comparisons

Dependent Variable: DayaSebar

Tukey HSD

| (I) Sampel | (J) Sampel | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| kontorl basis 1 bobot 0 | kontrol basis 1 bobot 50 | -.02667 | .20830 | 1.000 | -.8296 | .7762 |
| | kontrol basis 1 bobot 100 | -.06000 | .20830 | 1.000 | -.8629 | .7429 |
| | kontrol basis 1 bobot 150 | -.10000 | .20830 | 1.000 | -.9029 | .7029 |
| | kontrol basis 2 bobot 0 | 1.15000* | .20830 | .000 | .3471 | 1.9529 |
| | kontrol basis 2 bobot 50 | 1.10000* | .20830 | .001 | .2971 | 1.9029 |
| | kontrol basis 2 bobot 100 | 1.07333* | .20830 | .001 | .2704 | 1.8762 |
| | kontrol basis 2 bobot 150 | 1.03667* | .20830 | .002 | .2338 | 1.8396 |
| | kontrol basis 3 bobot 0 | 1.66333* | .20830 | .000 | .8604 | 2.4662 |
| | kontrol basis 3 bobot 50 | 1.61667* | .20830 | .000 | .8138 | 2.4196 |
| | kontrol basis 3 bobot 100 | 1.56333* | .20830 | .000 | .7604 | 2.3662 |
| | kontrol basis 3 bobot 150 | 1.53667* | .20830 | .000 | .7338 | 2.3396 |
| | formula 1 bobot 0 | .65667 | .20830 | .253 | -.1462 | 1.4596 |
| | formula 1 bobot 50 | .62000 | .20830 | .348 | -.1829 | 1.4229 |
| | formula 1 bobot 100 | .55333 | .20830 | .561 | -.2496 | 1.3562 |
| | formula 1 bobot 150 | .52333 | .20830 | .662 | -.2796 | 1.3262 |
| | formula 2 bobot 0 | 2.27667* | .20830 | .000 | 1.4738 | 3.0796 |
| | formula 2 bobot 50 | 2.22333* | .20830 | .000 | 1.4204 | 3.0262 |
| | formula 2 bobot 100 | 2.17667* | .20830 | .000 | 1.3738 | 2.9796 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | formula 2 bobot 150 | 2.15000* | .20830 | .000 | 1.3471 | 2.9529 |
| | formula 3 bobot 0 | 2.31667* | .20830 | .000 | 1.5138 | 3.1196 |
| | formula 3 bobot 50 | 2.29000* | .20830 | .000 | 1.4871 | 3.0929 |
| | formula 3 bobot 100 | 2.23000* | .20830 | .000 | 1.4271 | 3.0329 |
| | formula 3 bobot 150 | 2.22667* | .20830 | .000 | 1.4238 | 3.0296 |
| kontrol basis 1 bobot 50 | kontorl basis 1 bobot 0 | .02667 | .20830 | 1.000 | -.7762 | .8296 |
| | kontrol basis 1 bobot 100 | -.03333 | .20830 | 1.000 | -.8362 | .7696 |
| | kontrol basis 1 bobot 150 | -.07333 | .20830 | 1.000 | -.8762 | .7296 |
| | kontrol basis 2 bobot 0 | 1.17667* | .20830 | .000 | .3738 | 1.9796 |
| | kontrol basis 2 bobot 50 | 1.12667* | .20830 | .000 | .3238 | 1.9296 |
| | kontrol basis 2 bobot 100 | 1.10000* | .20830 | .001 | .2971 | 1.9029 |
| | kontrol basis 2 bobot 150 | 1.06333* | .20830 | .001 | .2604 | 1.8662 |
| | kontrol basis 3 bobot 0 | 1.69000* | .20830 | .000 | .8871 | 2.4929 |
| | kontrol basis 3 bobot 50 | 1.64333* | .20830 | .000 | .8404 | 2.4462 |
| | kontrol basis 3 bobot 100 | 1.59000* | .20830 | .000 | .7871 | 2.3929 |
| | kontrol basis 3 bobot 150 | 1.56333* | .20830 | .000 | .7604 | 2.3662 |
| | formula 1 bobot 0 | .68333 | .20830 | .195 | -.1196 | 1.4862 |
| | formula 1 bobot 50 | .64667 | .20830 | .277 | -.1562 | 1.4496 |
| | formula 1 bobot 100 | .58000 | .20830 | .472 | -.2229 | 1.3829 |
| | formula 1 bobot 150 | .55000 | .20830 | .573 | -.2529 | 1.3529 |
| | formula 2 bobot 0 | 2.30333* | .20830 | .000 | 1.5004 | 3.1062 |
| | formula 2 bobot 50 | 2.25000* | .20830 | .000 | 1.4471 | 3.0529 |
| | formula 2 bobot 100 | 2.20333* | .20830 | .000 | 1.4004 | 3.0062 |
| | formula 2 bobot 150 | 2.17667* | .20830 | .000 | 1.3738 | 2.9796 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | formula 3 bobot 0 | 2.34333* | .20830 | .000 | 1.5404 | 3.1462 |
| | formula 3 bobot 50 | 2.31667* | .20830 | .000 | 1.5138 | 3.1196 |
| | formula 3 bobot 100 | 2.25667* | .20830 | .000 | 1.4538 | 3.0596 |
| | formula 3 bobot 150 | 2.25333* | .20830 | .000 | 1.4504 | 3.0562 |
| kontrol basis 1 bobot 100 | kontorl basis 1 bobot 0 | .06000 | .20830 | 1.000 | -.7429 | .8629 |
| | kontrol basis 1 bobot 50 | .03333 | .20830 | 1.000 | -.7696 | .8362 |
| | kontrol basis 1 bobot 150 | -.04000 | .20830 | 1.000 | -.8429 | .7629 |
| | kontrol basis 2 bobot 0 | 1.21000* | .20830 | .000 | .4071 | 2.0129 |
| | kontrol basis 2 bobot 50 | 1.16000* | .20830 | .000 | .3571 | 1.9629 |
| | kontrol basis 2 bobot 100 | 1.13333* | .20830 | .000 | .3304 | 1.9362 |
| | kontrol basis 2 bobot 150 | 1.09667* | .20830 | .001 | .2938 | 1.8996 |
| | kontrol basis 3 bobot 0 | 1.72333* | .20830 | .000 | .9204 | 2.5262 |
| | kontrol basis 3 bobot 50 | 1.67667* | .20830 | .000 | .8738 | 2.4796 |
| | kontrol basis 3 bobot 100 | 1.62333* | .20830 | .000 | .8204 | 2.4262 |
| | kontrol basis 3 bobot 150 | 1.59667* | .20830 | .000 | .7938 | 2.3996 |
| | formula 1 bobot 0 | .71667 | .20830 | .138 | -.0862 | 1.5196 |
| | formula 1 bobot 50 | .68000 | .20830 | .202 | -.1229 | 1.4829 |
| | formula 1 bobot 100 | .61333 | .20830 | .368 | -.1896 | 1.4162 |
| | formula 1 bobot 150 | .58333 | .20830 | .461 | -.2196 | 1.3862 |
| | formula 2 bobot 0 | 2.33667* | .20830 | .000 | 1.5338 | 3.1396 |
| | formula 2 bobot 50 | 2.28333* | .20830 | .000 | 1.4804 | 3.0862 |
| | formula 2 bobot 100 | 2.23667* | .20830 | .000 | 1.4338 | 3.0396 |
| | formula 2 bobot 150 | 2.21000* | .20830 | .000 | 1.4071 | 3.0129 |
| | formula 3 bobot 0 | 2.37667* | .20830 | .000 | 1.5738 | 3.1796 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | formula 3 bobot 50 | 2.35000* | .20830 | .000 | 1.5471 | 3.1529 |
| | formula 3 bobot 100 | 2.29000* | .20830 | .000 | 1.4871 | 3.0929 |
| | formula 3 bobot 150 | 2.28667* | .20830 | .000 | 1.4838 | 3.0896 |
| kontrol basis 1 bobot 150 | kontorl basis 1 bobot 0 | .10000 | .20830 | 1.000 | -.7029 | .9029 |
| | kontrol basis 1 bobot 50 | .07333 | .20830 | 1.000 | -.7296 | .8762 |
| | kontrol basis 1 bobot 100 | .04000 | .20830 | 1.000 | -.7629 | .8429 |
| | kontrol basis 2 bobot 0 | 1.25000* | .20830 | .000 | .4471 | 2.0529 |
| | kontrol basis 2 bobot 50 | 1.20000* | .20830 | .000 | .3971 | 2.0029 |
| | kontrol basis 2 bobot 100 | 1.17333* | .20830 | .000 | .3704 | 1.9762 |
| | kontrol basis 2 bobot 150 | 1.13667* | .20830 | .000 | .3338 | 1.9396 |
| | kontrol basis 3 bobot 0 | 1.76333* | .20830 | .000 | .9604 | 2.5662 |
| | kontrol basis 3 bobot 50 | 1.71667* | .20830 | .000 | .9138 | 2.5196 |
| | kontrol basis 3 bobot 100 | 1.66333* | .20830 | .000 | .8604 | 2.4662 |
| | kontrol basis 3 bobot 150 | 1.63667* | .20830 | .000 | .8338 | 2.4396 |
| | formula 1 bobot 0 | .75667 | .20830 | .088 | -.0462 | 1.5596 |
| | formula 1 bobot 50 | .72000 | .20830 | .133 | -.0829 | 1.5229 |
| | formula 1 bobot 100 | .65333 | .20830 | .261 | -.1496 | 1.4562 |
| | formula 1 bobot 150 | .62333 | .20830 | .339 | -.1796 | 1.4262 |
| | formula 2 bobot 0 | 2.37667* | .20830 | .000 | 1.5738 | 3.1796 |
| | formula 2 bobot 50 | 2.32333* | .20830 | .000 | 1.5204 | 3.1262 |
| | formula 2 bobot 100 | 2.27667* | .20830 | .000 | 1.4738 | 3.0796 |
| | formula 2 bobot 150 | 2.25000* | .20830 | .000 | 1.4471 | 3.0529 |
| | formula 3 bobot 0 | 2.41667* | .20830 | .000 | 1.6138 | 3.2196 |
| | formula 3 bobot 50 | 2.39000* | .20830 | .000 | 1.5871 | 3.1929 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | formula 3 bobot 100 | 2.33000* | .20830 | .000 | 1.5271 | 3.1329 |
| | formula 3 bobot 150 | 2.32667* | .20830 | .000 | 1.5238 | 3.1296 |
| kontrol basis 2 bobot 0 | kontorl basis 1 bobot 0 | -1.15000* | .20830 | .000 | -1.9529 | -.3471 |
| | kontrol basis 1 bobot 50 | -1.17667* | .20830 | .000 | -1.9796 | -.3738 |
| | kontrol basis 1 bobot 100 | -1.21000* | .20830 | .000 | -2.0129 | -.4071 |
| | kontrol basis 1 bobot 150 | -1.25000* | .20830 | .000 | -2.0529 | -.4471 |
| | kontrol basis 2 bobot 50 | -.05000 | .20830 | 1.000 | -.8529 | .7529 |
| | kontrol basis 2 bobot 100 | -.07667 | .20830 | 1.000 | -.8796 | .7262 |
| | kontrol basis 2 bobot 150 | -.11333 | .20830 | 1.000 | -.9162 | .6896 |
| | kontrol basis 3 bobot 0 | .51333 | .20830 | .695 | -.2896 | 1.3162 |
| | kontrol basis 3 bobot 50 | .46667 | .20830 | .830 | -.3362 | 1.2696 |
| | kontrol basis 3 bobot 100 | .41333 | .20830 | .935 | -.3896 | 1.2162 |
| | kontrol basis 3 bobot 150 | .38667 | .20830 | .965 | -.4162 | 1.1896 |
| | formula 1 bobot 0 | -.49333 | .20830 | .757 | -1.2962 | .3096 |
| | formula 1 bobot 50 | -.53000 | .20830 | .640 | -1.3329 | .2729 |
| | formula 1 bobot 100 | -.59667 | .20830 | .419 | -1.3996 | .2062 |
| | formula 1 bobot 150 | -.62667 | .20830 | .330 | -1.4296 | .1762 |
| | formula 2 bobot 0 | 1.12667* | .20830 | .000 | .3238 | 1.9296 |
| | formula 2 bobot 50 | 1.07333* | .20830 | .001 | .2704 | 1.8762 |
| | formula 2 bobot 100 | 1.02667* | .20830 | .002 | .2238 | 1.8296 |
| | formula 2 bobot 150 | 1.00000* | .20830 | .003 | .1971 | 1.8029 |
| | formula 3 bobot 0 | 1.16667* | .20830 | .000 | .3638 | 1.9696 |
| | formula 3 bobot 50 | 1.14000* | .20830 | .000 | .3371 | 1.9429 |
| | formula 3 bobot 100 | 1.08000* | .20830 | .001 | .2771 | 1.8829 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | formula 3 bobot 150 | 1.07667* | .20830 | .001 | .2738 | 1.8796 |
| kontrol basis 2 bobot 50 | kontorl basis 1 bobot 0 | -1.10000* | .20830 | .001 | -1.9029 | -.2971 |
| | kontrol basis 1 bobot 50 | -1.12667* | .20830 | .000 | -1.9296 | -.3238 |
| | kontrol basis 1 bobot 100 | -1.16000* | .20830 | .000 | -1.9629 | -.3571 |
| | kontrol basis 1 bobot 150 | -1.20000* | .20830 | .000 | -2.0029 | -.3971 |
| | kontrol basis 2 bobot 0 | .05000 | .20830 | 1.000 | -.7529 | .8529 |
| | kontrol basis 2 bobot 100 | -.02667 | .20830 | 1.000 | -.8296 | .7762 |
| | kontrol basis 2 bobot 150 | -.06333 | .20830 | 1.000 | -.8662 | .7396 |
| | kontrol basis 3 bobot 0 | .56333 | .20830 | .527 | -.2396 | 1.3662 |
| | kontrol basis 3 bobot 50 | .51667 | .20830 | .684 | -.2862 | 1.3196 |
| | kontrol basis 3 bobot 100 | .46333 | .20830 | .839 | -.3396 | 1.2662 |
| | kontrol basis 3 bobot 150 | .43667 | .20830 | .897 | -.3662 | 1.2396 |
| | formula 1 bobot 0 | -.44333 | .20830 | .884 | -1.2462 | .3596 |
| | formula 1 bobot 50 | -.48000 | .20830 | .795 | -1.2829 | .3229 |
| | formula 1 bobot 100 | -.54667 | .20830 | .584 | -1.3496 | .2562 |
| | formula 1 bobot 150 | -.57667 | .20830 | .483 | -1.3796 | .2262 |
| | formula 2 bobot 0 | 1.17667* | .20830 | .000 | .3738 | 1.9796 |
| | formula 2 bobot 50 | 1.12333* | .20830 | .000 | .3204 | 1.9262 |
| | formula 2 bobot 100 | 1.07667* | .20830 | .001 | .2738 | 1.8796 |
| | formula 2 bobot 150 | 1.05000* | .20830 | .001 | .2471 | 1.8529 |
| | formula 3 bobot 0 | 1.21667* | .20830 | .000 | .4138 | 2.0196 |
| | formula 3 bobot 50 | 1.19000* | .20830 | .000 | .3871 | 1.9929 |
| | formula 3 bobot 100 | 1.13000* | .20830 | .000 | .3271 | 1.9329 |
| | formula 3 bobot 150 | 1.12667* | .20830 | .000 | .3238 | 1.9296 |

| | | | | | | |
|---|---|---|---|---|---|---|
| kontrol basis 2 bobot 100 | kontorl basis 1 bobot 0 | -1.07333* | .20830 | .001 | -1.8762 | -.2704 |
| | kontrol basis 1 bobot 50 | -1.10000* | .20830 | .001 | -1.9029 | -.2971 |
| | kontrol basis 1 bobot 100 | -1.13333* | .20830 | .000 | -1.9362 | -.3304 |
| | kontrol basis 1 bobot 150 | -1.17333* | .20830 | .000 | -1.9762 | -.3704 |
| | kontrol basis 2 bobot 0 | .07667 | .20830 | 1.000 | -.7262 | .8796 |
| | kontrol basis 2 bobot 50 | .02667 | .20830 | 1.000 | -.7762 | .8296 |
| | kontrol basis 2 bobot 150 | -.03667 | .20830 | 1.000 | -.8396 | .7662 |
| | kontrol basis 3 bobot 0 | .59000 | .20830 | .440 | -.2129 | 1.3929 |
| | kontrol basis 3 bobot 50 | .54333 | .20830 | .595 | -.2596 | 1.3462 |
| | kontrol basis 3 bobot 100 | .49000 | .20830 | .767 | -.3129 | 1.2929 |
| | kontrol basis 3 bobot 150 | .46333 | .20830 | .839 | -.3396 | 1.2662 |
| | formula 1 bobot 0 | -.41667 | .20830 | .930 | -1.2196 | .3862 |
| | formula 1 bobot 50 | -.45333 | .20830 | .862 | -1.2562 | .3496 |
| | formula 1 bobot 100 | -.52000 | .20830 | .673 | -1.3229 | .2829 |
| | formula 1 bobot 150 | -.55000 | .20830 | .573 | -1.3529 | .2529 |
| | formula 2 bobot 0 | 1.20333* | .20830 | .000 | .4004 | 2.0062 |
| | formula 2 bobot 50 | 1.15000* | .20830 | .000 | .3471 | 1.9529 |
| | formula 2 bobot 100 | 1.10333* | .20830 | .001 | .3004 | 1.9062 |
| | formula 2 bobot 150 | 1.07667* | .20830 | .001 | .2738 | 1.8796 |
| | formula 3 bobot 0 | 1.24333* | .20830 | .000 | .4404 | 2.0462 |
| | formula 3 bobot 50 | 1.21667* | .20830 | .000 | .4138 | 2.0196 |
| | formula 3 bobot 100 | 1.15667* | .20830 | .000 | .3538 | 1.9596 |
| | formula 3 bobot 150 | 1.15333* | .20830 | .000 | .3504 | 1.9562 |
| kontrol basis 2 bobot 150 | kontorl basis 1 bobot 0 | -1.03667* | .20830 | .002 | -1.8396 | -.2338 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | kontrol basis 1 bobot 50 | -1.06333* | .20830 | .001 | -1.8662 | -.2604 |
| | kontrol basis 1 bobot 100 | -1.09667* | .20830 | .001 | -1.8996 | -.2938 |
| | kontrol basis 1 bobot 150 | -1.13667* | .20830 | .000 | -1.9396 | -.3338 |
| | kontrol basis 2 bobot 0 | .11333 | .20830 | 1.000 | -.6896 | .9162 |
| | kontrol basis 2 bobot 50 | .06333 | .20830 | 1.000 | -.7396 | .8662 |
| | kontrol basis 2 bobot 100 | .03667 | .20830 | 1.000 | -.7662 | .8396 |
| | kontrol basis 3 bobot 0 | .62667 | .20830 | .330 | -.1762 | 1.4296 |
| | kontrol basis 3 bobot 50 | .58000 | .20830 | .472 | -.2229 | 1.3829 |
| | kontrol basis 3 bobot 100 | .52667 | .20830 | .651 | -.2762 | 1.3296 |
| | kontrol basis 3 bobot 150 | .50000 | .20830 | .737 | -.3029 | 1.3029 |
| | formula 1 bobot 0 | -.38000 | .20830 | .971 | -1.1829 | .4229 |
| | formula 1 bobot 50 | -.41667 | .20830 | .930 | -1.2196 | .3862 |
| | formula 1 bobot 100 | -.48333 | .20830 | .786 | -1.2862 | .3196 |
| | formula 1 bobot 150 | -.51333 | .20830 | .695 | -1.3162 | .2896 |
| | formula 2 bobot 0 | 1.24000* | .20830 | .000 | .4371 | 2.0429 |
| | formula 2 bobot 50 | 1.18667* | .20830 | .000 | .3838 | 1.9896 |
| | formula 2 bobot 100 | 1.14000* | .20830 | .000 | .3371 | 1.9429 |
| | formula 2 bobot 150 | 1.11333* | .20830 | .001 | .3104 | 1.9162 |
| | formula 3 bobot 0 | 1.28000* | .20830 | .000 | .4771 | 2.0829 |
| | formula 3 bobot 50 | 1.25333* | .20830 | .000 | .4504 | 2.0562 |
| | formula 3 bobot 100 | 1.19333* | .20830 | .000 | .3904 | 1.9962 |
| | formula 3 bobot 150 | 1.19000* | .20830 | .000 | .3871 | 1.9929 |
| kontrol basis 3 bobot 0 | kontorl basis 1 bobot 0 | -1.66333* | .20830 | .000 | -2.4662 | -.8604 |
| | kontrol basis 1 bobot 50 | -1.69000* | .20830 | .000 | -2.4929 | -.8871 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | kontrol basis 1 bobot 100 | -1.72333* | .20830 | .000 | -2.5262 | -.9204 |
| | kontrol basis 1 bobot 150 | -1.76333* | .20830 | .000 | -2.5662 | -.9604 |
| | kontrol basis 2 bobot 0 | -.51333 | .20830 | .695 | -1.3162 | .2896 |
| | kontrol basis 2 bobot 50 | -.56333 | .20830 | .527 | -1.3662 | .2396 |
| | kontrol basis 2 bobot 100 | -.59000 | .20830 | .440 | -1.3929 | .2129 |
| | kontrol basis 2 bobot 150 | -.62667 | .20830 | .330 | -1.4296 | .1762 |
| | kontrol basis 3 bobot 50 | -.04667 | .20830 | 1.000 | -.8496 | .7562 |
| | kontrol basis 3 bobot 100 | -.10000 | .20830 | 1.000 | -.9029 | .7029 |
| | kontrol basis 3 bobot 150 | -.12667 | .20830 | 1.000 | -.9296 | .6762 |
| | formula 1 bobot 0 | -1.00667* | .20830 | .003 | -1.8096 | -.2038 |
| | formula 1 bobot 50 | -1.04333* | .20830 | .002 | -1.8462 | -.2404 |
| | formula 1 bobot 100 | -1.11000* | .20830 | .001 | -1.9129 | -.3071 |
| | formula 1 bobot 150 | -1.14000* | .20830 | .000 | -1.9429 | -.3371 |
| | formula 2 bobot 0 | .61333 | .20830 | .368 | -.1896 | 1.4162 |
| | formula 2 bobot 50 | .56000 | .20830 | .539 | -.2429 | 1.3629 |
| | formula 2 bobot 100 | .51333 | .20830 | .695 | -.2896 | 1.3162 |
| | formula 2 bobot 150 | .48667 | .20830 | .776 | -.3162 | 1.2896 |
| | formula 3 bobot 0 | .65333 | .20830 | .261 | -.1496 | 1.4562 |
| | formula 3 bobot 50 | .62667 | .20830 | .330 | -.1762 | 1.4296 |
| | formula 3 bobot 100 | .56667 | .20830 | .516 | -.2362 | 1.3696 |
| | formula 3 bobot 150 | .56333 | .20830 | .527 | -.2396 | 1.3662 |
| kontrol basis 3 bobot 50 | kontorl basis 1 bobot 0 | -1.61667* | .20830 | .000 | -2.4196 | -.8138 |
| | kontrol basis 1 bobot 50 | -1.64333* | .20830 | .000 | -2.4462 | -.8404 |
| | kontrol basis 1 bobot 100 | -1.67667* | .20830 | .000 | -2.4796 | -.8738 |

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|---|---|---|---|---|---|---|
| | kontrol basis 1 bobot 150 | -1.71667* | .20830 | .000 | -2.5196 | -.9138 |
| | kontrol basis 2 bobot 0 | -.46667 | .20830 | .830 | -1.2696 | .3362 |
| | kontrol basis 2 bobot 50 | -.51667 | .20830 | .684 | -1.3196 | .2862 |
| | kontrol basis 2 bobot 100 | -.54333 | .20830 | .595 | -1.3462 | .2596 |
| | kontrol basis 2 bobot 150 | -.58000 | .20830 | .472 | -1.3829 | .2229 |
| | kontrol basis 3 bobot 0 | .04667 | .20830 | 1.000 | -.7562 | .8496 |
| | kontrol basis 3 bobot 100 | -.05333 | .20830 | 1.000 | -.8562 | .7496 |
| | kontrol basis 3 bobot 150 | -.08000 | .20830 | 1.000 | -.8829 | .7229 |
| | formula 1 bobot 0 | -.96000* | .20830 | .006 | -1.7629 | -.1571 |
| | formula 1 bobot 50 | -.99667* | .20830 | .003 | -1.7996 | -.1938 |
| | formula 1 bobot 100 | -1.06333* | .20830 | .001 | -1.8662 | -.2604 |
| | formula 1 bobot 150 | -1.09333* | .20830 | .001 | -1.8962 | -.2904 |
| | formula 2 bobot 0 | .66000 | .20830 | .245 | -.1429 | 1.4629 |
| | formula 2 bobot 50 | .60667 | .20830 | .388 | -.1962 | 1.4096 |
| | formula 2 bobot 100 | .56000 | .20830 | .539 | -.2429 | 1.3629 |
| | formula 2 bobot 150 | .53333 | .20830 | .629 | -.2696 | 1.3362 |
| | formula 3 bobot 0 | .70000 | .20830 | .165 | -.1029 | 1.5029 |
| | formula 3 bobot 50 | .67333 | .20830 | .216 | -.1296 | 1.4762 |
| | formula 3 bobot 100 | .61333 | .20830 | .368 | -.1896 | 1.4162 |
| | formula 3 bobot 150 | .61000 | .20830 | .378 | -.1929 | 1.4129 |
| kontrol basis 3 bobot 100 | kontorl basis 1 bobot 0 | -1.56333* | .20830 | .000 | -2.3662 | -.7604 |
| | kontrol basis 1 bobot 50 | -1.59000* | .20830 | .000 | -2.3929 | -.7871 |
| | kontrol basis 1 bobot 100 | -1.62333* | .20830 | .000 | -2.4262 | -.8204 |
| | kontrol basis 1 bobot 150 | -1.66333* | .20830 | .000 | -2.4662 | -.8604 |

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|---|---|---|---|---|---|---|
| | kontrol basis 2 bobot 0 | -.41333 | .20830 | .935 | -1.2162 | .3896 |
| | kontrol basis 2 bobot 50 | -.46333 | .20830 | .839 | -1.2662 | .3396 |
| | kontrol basis 2 bobot 100 | -.49000 | .20830 | .767 | -1.2929 | .3129 |
| | kontrol basis 2 bobot 150 | -.52667 | .20830 | .651 | -1.3296 | .2762 |
| | kontrol basis 3 bobot 0 | .10000 | .20830 | 1.000 | -.7029 | .9029 |
| | kontrol basis 3 bobot 50 | .05333 | .20830 | 1.000 | -.7496 | .8562 |
| | kontrol basis 3 bobot 150 | -.02667 | .20830 | 1.000 | -.8296 | .7762 |
| | formula 1 bobot 0 | -.90667* | .20830 | .012 | -1.7096 | -.1038 |
| | formula 1 bobot 50 | -.94333* | .20830 | .007 | -1.7462 | -.1404 |
| | formula 1 bobot 100 | -1.01000* | .20830 | .003 | -1.8129 | -.2071 |
| | formula 1 bobot 150 | -1.04000* | .20830 | .002 | -1.8429 | -.2371 |
| | formula 2 bobot 0 | .71333 | .20830 | .143 | -.0896 | 1.5162 |
| | formula 2 bobot 50 | .66000 | .20830 | .245 | -.1429 | 1.4629 |
| | formula 2 bobot 100 | .61333 | .20830 | .368 | -.1896 | 1.4162 |
| | formula 2 bobot 150 | .58667 | .20830 | .450 | -.2162 | 1.3896 |
| | formula 3 bobot 0 | .75333 | .20830 | .091 | -.0496 | 1.5562 |
| | formula 3 bobot 50 | .72667 | .20830 | .124 | -.0762 | 1.5296 |
| | formula 3 bobot 100 | .66667 | .20830 | .230 | -.1362 | 1.4696 |
| | formula 3 bobot 150 | .66333 | .20830 | .237 | -.1396 | 1.4662 |
| kontrol basis 3 bobot 150 | kontorl basis 1 bobot 0 | -1.53667* | .20830 | .000 | -2.3396 | -.7338 |
| | kontrol basis 1 bobot 50 | -1.56333* | .20830 | .000 | -2.3662 | -.7604 |
| | kontrol basis 1 bobot 100 | -1.59667* | .20830 | .000 | -2.3996 | -.7938 |
| | kontrol basis 1 bobot 150 | -1.63667* | .20830 | .000 | -2.4396 | -.8338 |
| | kontrol basis 2 bobot 0 | -.38667 | .20830 | .965 | -1.1896 | .4162 |

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|---|---|---|---|---|---|---|---|
| | | kontrol basis 2 bobot 50 | -.43667 | .20830 | .897 | -1.2396 | .3662 |
| | | kontrol basis 2 bobot 100 | -.46333 | .20830 | .839 | -1.2662 | .3396 |
| | | kontrol basis 2 bobot 150 | -.50000 | .20830 | .737 | -1.3029 | .3029 |
| | | kontrol basis 3 bobot 0 | .12667 | .20830 | 1.000 | -.6762 | .9296 |
| | | kontrol basis 3 bobot 50 | .08000 | .20830 | 1.000 | -.7229 | .8829 |
| | | kontrol basis 3 bobot 100 | .02667 | .20830 | 1.000 | -.7762 | .8296 |
| | | formula 1 bobot 0 | -.88000* | .20830 | .018 | -1.6829 | -.0771 |
| | | formula 1 bobot 50 | -.91667* | .20830 | .011 | -1.7196 | -.1138 |
| | | formula 1 bobot 100 | -.98333* | .20830 | .004 | -1.7862 | -.1804 |
| | | formula 1 bobot 150 | -1.01333* | .20830 | .003 | -1.8162 | -.2104 |
| | | formula 2 bobot 0 | .74000 | .20830 | .106 | -.0629 | 1.5429 |
| | | formula 2 bobot 50 | .68667 | .20830 | .189 | -.1162 | 1.4896 |
| | | formula 2 bobot 100 | .64000 | .20830 | .294 | -.1629 | 1.4429 |
| | | formula 2 bobot 150 | .61333 | .20830 | .368 | -.1896 | 1.4162 |
| | | formula 3 bobot 0 | .78000 | .20830 | .066 | -.0229 | 1.5829 |
| | | formula 3 bobot 50 | .75333 | .20830 | .091 | -.0496 | 1.5562 |
| | | formula 3 bobot 100 | .69333 | .20830 | .176 | -.1096 | 1.4962 |
| | | formula 3 bobot 150 | .69000 | .20830 | .183 | -.1129 | 1.4929 |
| formula bobot 0 | 1 | kontorl basis 1 bobot 0 | -.65667 | .20830 | .253 | -1.4596 | .1462 |
| | | kontrol basis 1 bobot 50 | -.68333 | .20830 | .195 | -1.4862 | .1196 |
| | | kontrol basis 1 bobot 100 | -.71667 | .20830 | .138 | -1.5196 | .0862 |
| | | kontrol basis 1 bobot 150 | -.75667 | .20830 | .088 | -1.5596 | .0462 |
| | | kontrol basis 2 bobot 0 | .49333 | .20830 | .757 | -.3096 | 1.2962 |
| | | kontrol basis 2 bobot 50 | .44333 | .20830 | .884 | -.3596 | 1.2462 |

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|---|---|---|---|---|---|---|
| | kontrol basis 2 bobot 100 | .41667 | .20830 | .930 | -.3862 | 1.2196 |
| | kontrol basis 2 bobot 150 | .38000 | .20830 | .971 | -.4229 | 1.1829 |
| | kontrol basis 3 bobot 0 | 1.00667* | .20830 | .003 | .2038 | 1.8096 |
| | kontrol basis 3 bobot 50 | .96000* | .20830 | .006 | .1571 | 1.7629 |
| | kontrol basis 3 bobot 100 | .90667* | .20830 | .012 | .1038 | 1.7096 |
| | kontrol basis 3 bobot 150 | .88000* | .20830 | .018 | .0771 | 1.6829 |
| | formula 1 bobot 50 | -.03667 | .20830 | 1.000 | -.8396 | .7662 |
| | formula 1 bobot 100 | -.10333 | .20830 | 1.000 | -.9062 | .6996 |
| | formula 1 bobot 150 | -.13333 | .20830 | 1.000 | -.9362 | .6696 |
| | formula 2 bobot 0 | 1.62000* | .20830 | .000 | .8171 | 2.4229 |
| | formula 2 bobot 50 | 1.56667* | .20830 | .000 | .7638 | 2.3696 |
| | formula 2 bobot 100 | 1.52000* | .20830 | .000 | .7171 | 2.3229 |
| | formula 2 bobot 150 | 1.49333* | .20830 | .000 | .6904 | 2.2962 |
| | formula 3 bobot 0 | 1.66000* | .20830 | .000 | .8571 | 2.4629 |
| | formula 3 bobot 50 | 1.63333* | .20830 | .000 | .8304 | 2.4362 |
| | formula 3 bobot 100 | 1.57333* | .20830 | .000 | .7704 | 2.3762 |
| | formula 3 bobot 150 | 1.57000* | .20830 | .000 | .7671 | 2.3729 |
| formula 1 bobot 50 | kontorl basis 1 bobot 0 | -.62000 | .20830 | .348 | -1.4229 | .1829 |
| | kontrol basis 1 bobot 50 | -.64667 | .20830 | .277 | -1.4496 | .1562 |
| | kontrol basis 1 bobot 100 | -.68000 | .20830 | .202 | -1.4829 | .1229 |
| | kontrol basis 1 bobot 150 | -.72000 | .20830 | .133 | -1.5229 | .0829 |
| | kontrol basis 2 bobot 0 | .53000 | .20830 | .640 | -.2729 | 1.3329 |
| | kontrol basis 2 bobot 50 | .48000 | .20830 | .795 | -.3229 | 1.2829 |
| | kontrol basis 2 bobot 100 | .45333 | .20830 | .862 | -.3496 | 1.2562 |

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|---|---|---|---|---|---|---|
| | kontrol basis 2 bobot 150 | .41667 | .20830 | .930 | -.3862 | 1.2196 |
| | kontrol basis 3 bobot 0 | 1.04333* | .20830 | .002 | .2404 | 1.8462 |
| | kontrol basis 3 bobot 50 | .99667* | .20830 | .003 | .1938 | 1.7996 |
| | kontrol basis 3 bobot 100 | .94333* | .20830 | .007 | .1404 | 1.7462 |
| | kontrol basis 3 bobot 150 | .91667* | .20830 | .011 | .1138 | 1.7196 |
| | formula 1 bobot 0 | .03667 | .20830 | 1.000 | -.7662 | .8396 |
| | formula 1 bobot 100 | -.06667 | .20830 | 1.000 | -.8696 | .7362 |
| | formula 1 bobot 150 | -.09667 | .20830 | 1.000 | -.8996 | .7062 |
| | formula 2 bobot 0 | 1.65667* | .20830 | .000 | .8538 | 2.4596 |
| | formula 2 bobot 50 | 1.60333* | .20830 | .000 | .8004 | 2.4062 |
| | formula 2 bobot 100 | 1.55667* | .20830 | .000 | .7538 | 2.3596 |
| | formula 2 bobot 150 | 1.53000* | .20830 | .000 | .7271 | 2.3329 |
| | formula 3 bobot 0 | 1.69667* | .20830 | .000 | .8938 | 2.4996 |
| | formula 3 bobot 50 | 1.67000* | .20830 | .000 | .8671 | 2.4729 |
| | formula 3 bobot 100 | 1.61000* | .20830 | .000 | .8071 | 2.4129 |
| | formula 3 bobot 150 | 1.60667* | .20830 | .000 | .8038 | 2.4096 |
| formula 1 bobot 100 | kontorl basis 1 bobot 0 | -.55333 | .20830 | .561 | -1.3562 | .2496 |
| | kontrol basis 1 bobot 50 | -.58000 | .20830 | .472 | -1.3829 | .2229 |
| | kontrol basis 1 bobot 100 | -.61333 | .20830 | .368 | -1.4162 | .1896 |
| | kontrol basis 1 bobot 150 | -.65333 | .20830 | .261 | -1.4562 | .1496 |
| | kontrol basis 2 bobot 0 | .59667 | .20830 | .419 | -.2062 | 1.3996 |
| | kontrol basis 2 bobot 50 | .54667 | .20830 | .584 | -.2562 | 1.3496 |
| | kontrol basis 2 bobot 100 | .52000 | .20830 | .673 | -.2829 | 1.3229 |
| | kontrol basis 2 bobot 150 | .48333 | .20830 | .786 | -.3196 | 1.2862 |

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|---|---|---|---|---|---|---|
| | kontrol basis 3 bobot 0 | 1.11000* | .20830 | .001 | .3071 | 1.9129 |
| | kontrol basis 3 bobot 50 | 1.06333* | .20830 | .001 | .2604 | 1.8662 |
| | kontrol basis 3 bobot 100 | 1.01000* | .20830 | .003 | .2071 | 1.8129 |
| | kontrol basis 3 bobot 150 | .98333* | .20830 | .004 | .1804 | 1.7862 |
| | formula 1 bobot 0 | .10333 | .20830 | 1.000 | -.6996 | .9062 |
| | formula 1 bobot 50 | .06667 | .20830 | 1.000 | -.7362 | .8696 |
| | formula 1 bobot 150 | -.03000 | .20830 | 1.000 | -.8329 | .7729 |
| | formula 2 bobot 0 | 1.72333* | .20830 | .000 | .9204 | 2.5262 |
| | formula 2 bobot 50 | 1.67000* | .20830 | .000 | .8671 | 2.4729 |
| | formula 2 bobot 100 | 1.62333* | .20830 | .000 | .8204 | 2.4262 |
| | formula 2 bobot 150 | 1.59667* | .20830 | .000 | .7938 | 2.3996 |
| | formula 3 bobot 0 | 1.76333* | .20830 | .000 | .9604 | 2.5662 |
| | formula 3 bobot 50 | 1.73667* | .20830 | .000 | .9338 | 2.5396 |
| | formula 3 bobot 100 | 1.67667* | .20830 | .000 | .8738 | 2.4796 |
| | formula 3 bobot 150 | 1.67333* | .20830 | .000 | .8704 | 2.4762 |
| formula 1 bobot 150 | kontorl basis 1 bobot 0 | -.52333 | .20830 | .662 | -1.3262 | .2796 |
| | kontrol basis 1 bobot 50 | -.55000 | .20830 | .573 | -1.3529 | .2529 |
| | kontrol basis 1 bobot 100 | -.58333 | .20830 | .461 | -1.3862 | .2196 |
| | kontrol basis 1 bobot 150 | -.62333 | .20830 | .339 | -1.4262 | .1796 |
| | kontrol basis 2 bobot 0 | .62667 | .20830 | .330 | -.1762 | 1.4296 |
| | kontrol basis 2 bobot 50 | .57667 | .20830 | .483 | -.2262 | 1.3796 |
| | kontrol basis 2 bobot 100 | .55000 | .20830 | .573 | -.2529 | 1.3529 |
| | kontrol basis 2 bobot 150 | .51333 | .20830 | .695 | -.2896 | 1.3162 |
| | kontrol basis 3 bobot 0 | 1.14000* | .20830 | .000 | .3371 | 1.9429 |

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|---|---|---|---|---|---|---|---|
| | | kontrol basis 3 bobot 50 | 1.09333* | .20830 | .001 | .2904 | 1.8962 |
| | | kontrol basis 3 bobot 100 | 1.04000* | .20830 | .002 | .2371 | 1.8429 |
| | | kontrol basis 3 bobot 150 | 1.01333* | .20830 | .003 | .2104 | 1.8162 |
| | | formula 1 bobot 0 | .13333 | .20830 | 1.000 | -.6696 | .9362 |
| | | formula 1 bobot 50 | .09667 | .20830 | 1.000 | -.7062 | .8996 |
| | | formula 1 bobot 100 | .03000 | .20830 | 1.000 | -.7729 | .8329 |
| | | formula 2 bobot 0 | 1.75333* | .20830 | .000 | .9504 | 2.5562 |
| | | formula 2 bobot 50 | 1.70000* | .20830 | .000 | .8971 | 2.5029 |
| | | formula 2 bobot 100 | 1.65333* | .20830 | .000 | .8504 | 2.4562 |
| | | formula 2 bobot 150 | 1.62667* | .20830 | .000 | .8238 | 2.4296 |
| | | formula 3 bobot 0 | 1.79333* | .20830 | .000 | .9904 | 2.5962 |
| | | formula 3 bobot 50 | 1.76667* | .20830 | .000 | .9638 | 2.5696 |
| | | formula 3 bobot 100 | 1.70667* | .20830 | .000 | .9038 | 2.5096 |
| | | formula 3 bobot 150 | 1.70333* | .20830 | .000 | .9004 | 2.5062 |
| formula bobot 0 | 2 | kontorl basis 1 bobot 0 | -2.27667* | .20830 | .000 | -3.0796 | -1.4738 |
| | | kontrol basis 1 bobot 50 | -2.30333* | .20830 | .000 | -3.1062 | -1.5004 |
| | | kontrol basis 1 bobot 100 | -2.33667* | .20830 | .000 | -3.1396 | -1.5338 |
| | | kontrol basis 1 bobot 150 | -2.37667* | .20830 | .000 | -3.1796 | -1.5738 |
| | | kontrol basis 2 bobot 0 | -1.12667* | .20830 | .000 | -1.9296 | -.3238 |
| | | kontrol basis 2 bobot 50 | -1.17667* | .20830 | .000 | -1.9796 | -.3738 |
| | | kontrol basis 2 bobot 100 | -1.20333* | .20830 | .000 | -2.0062 | -.4004 |
| | | kontrol basis 2 bobot 150 | -1.24000* | .20830 | .000 | -2.0429 | -.4371 |
| | | kontrol basis 3 bobot 0 | -.61333 | .20830 | .368 | -1.4162 | .1896 |
| | | kontrol basis 3 bobot 50 | -.66000 | .20830 | .245 | -1.4629 | .1429 |

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|---|---|---|---|---|---|---|
| | kontrol basis 3 bobot 100 | -.71333 | .20830 | .143 | -1.5162 | .0896 |
| | kontrol basis 3 bobot 150 | -.74000 | .20830 | .106 | -1.5429 | .0629 |
| | formula 1 bobot 0 | -1.62000* | .20830 | .000 | -2.4229 | -.8171 |
| | formula 1 bobot 50 | -1.65667* | .20830 | .000 | -2.4596 | -.8538 |
| | formula 1 bobot 100 | -1.72333* | .20830 | .000 | -2.5262 | -.9204 |
| | formula 1 bobot 150 | -1.75333* | .20830 | .000 | -2.5562 | -.9504 |
| | formula 2 bobot 50 | -.05333 | .20830 | 1.000 | -.8562 | .7496 |
| | formula 2 bobot 100 | -.10000 | .20830 | 1.000 | -.9029 | .7029 |
| | formula 2 bobot 150 | -.12667 | .20830 | 1.000 | -.9296 | .6762 |
| | formula 3 bobot 0 | .04000 | .20830 | 1.000 | -.7629 | .8429 |
| | formula 3 bobot 50 | .01333 | .20830 | 1.000 | -.7896 | .8162 |
| | formula 3 bobot 100 | -.04667 | .20830 | 1.000 | -.8496 | .7562 |
| | formula 3 bobot 150 | -.05000 | .20830 | 1.000 | -.8529 | .7529 |
| formula 2 bobot 50 | kontorl basis 1 bobot 0 | -2.22333* | .20830 | .000 | -3.0262 | -1.4204 |
| | kontrol basis 1 bobot 50 | -2.25000* | .20830 | .000 | -3.0529 | -1.4471 |
| | kontrol basis 1 bobot 100 | -2.28333* | .20830 | .000 | -3.0862 | -1.4804 |
| | kontrol basis 1 bobot 150 | -2.32333* | .20830 | .000 | -3.1262 | -1.5204 |
| | kontrol basis 2 bobot 0 | -1.07333* | .20830 | .001 | -1.8762 | -.2704 |
| | kontrol basis 2 bobot 50 | -1.12333* | .20830 | .000 | -1.9262 | -.3204 |
| | kontrol basis 2 bobot 100 | -1.15000* | .20830 | .000 | -1.9529 | -.3471 |
| | kontrol basis 2 bobot 150 | -1.18667* | .20830 | .000 | -1.9896 | -.3838 |
| | kontrol basis 3 bobot 0 | -.56000 | .20830 | .539 | -1.3629 | .2429 |
| | kontrol basis 3 bobot 50 | -.60667 | .20830 | .388 | -1.4096 | .1962 |
| | kontrol basis 3 bobot 100 | -.66000 | .20830 | .245 | -1.4629 | .1429 |

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|---|---|---|---|---|---|---|
| | kontrol basis 3 bobot 150 | -.68667 | .20830 | .189 | -1.4896 | .1162 |
| | formula 1 bobot 0 | -1.56667* | .20830 | .000 | -2.3696 | -.7638 |
| | formula 1 bobot 50 | -1.60333* | .20830 | .000 | -2.4062 | -.8004 |
| | formula 1 bobot 100 | -1.67000* | .20830 | .000 | -2.4729 | -.8671 |
| | formula 1 bobot 150 | -1.70000* | .20830 | .000 | -2.5029 | -.8971 |
| | formula 2 bobot 0 | .05333 | .20830 | 1.000 | -.7496 | .8562 |
| | formula 2 bobot 100 | -.04667 | .20830 | 1.000 | -.8496 | .7562 |
| | formula 2 bobot 150 | -.07333 | .20830 | 1.000 | -.8762 | .7296 |
| | formula 3 bobot 0 | .09333 | .20830 | 1.000 | -.7096 | .8962 |
| | formula 3 bobot 50 | .06667 | .20830 | 1.000 | -.7362 | .8696 |
| | formula 3 bobot 100 | .00667 | .20830 | 1.000 | -.7962 | .8096 |
| | formula 3 bobot 150 | .00333 | .20830 | 1.000 | -.7996 | .8062 |
| formula 2 bobot 100 | kontorl basis 1 bobot 0 | -2.17667* | .20830 | .000 | -2.9796 | -1.3738 |
| | kontrol basis 1 bobot 50 | -2.20333* | .20830 | .000 | -3.0062 | -1.4004 |
| | kontrol basis 1 bobot 100 | -2.23667* | .20830 | .000 | -3.0396 | -1.4338 |
| | kontrol basis 1 bobot 150 | -2.27667* | .20830 | .000 | -3.0796 | -1.4738 |
| | kontrol basis 2 bobot 0 | -1.02667* | .20830 | .002 | -1.8296 | -.2238 |
| | kontrol basis 2 bobot 50 | -1.07667* | .20830 | .001 | -1.8796 | -.2738 |
| | kontrol basis 2 bobot 100 | -1.10333* | .20830 | .001 | -1.9062 | -.3004 |
| | kontrol basis 2 bobot 150 | -1.14000* | .20830 | .000 | -1.9429 | -.3371 |
| | kontrol basis 3 bobot 0 | -.51333 | .20830 | .695 | -1.3162 | .2896 |
| | kontrol basis 3 bobot 50 | -.56000 | .20830 | .539 | -1.3629 | .2429 |
| | kontrol basis 3 bobot 100 | -.61333 | .20830 | .368 | -1.4162 | .1896 |
| | kontrol basis 3 bobot 150 | -.64000 | .20830 | .294 | -1.4429 | .1629 |

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|---|---|---|---|---|---|---|
| | formula 1 bobot 0 | -1.52000* | .20830 | .000 | -2.3229 | -.7171 |
| | formula 1 bobot 50 | -1.55667* | .20830 | .000 | -2.3596 | -.7538 |
| | formula 1 bobot 100 | -1.62333* | .20830 | .000 | -2.4262 | -.8204 |
| | formula 1 bobot 150 | -1.65333* | .20830 | .000 | -2.4562 | -.8504 |
| | formula 2 bobot 0 | .10000 | .20830 | 1.000 | -.7029 | .9029 |
| | formula 2 bobot 50 | .04667 | .20830 | 1.000 | -.7562 | .8496 |
| | formula 2 bobot 150 | -.02667 | .20830 | 1.000 | -.8296 | .7762 |
| | formula 3 bobot 0 | .14000 | .20830 | 1.000 | -.6629 | .9429 |
| | formula 3 bobot 50 | .11333 | .20830 | 1.000 | -.6896 | .9162 |
| | formula 3 bobot 100 | .05333 | .20830 | 1.000 | -.7496 | .8562 |
| | formula 3 bobot 150 | .05000 | .20830 | 1.000 | -.7529 | .8529 |
| formula 2 bobot 150 | kontorl basis 1 bobot 0 | -2.15000* | .20830 | .000 | -2.9529 | -1.3471 |
| | kontrol basis 1 bobot 50 | -2.17667* | .20830 | .000 | -2.9796 | -1.3738 |
| | kontrol basis 1 bobot 100 | -2.21000* | .20830 | .000 | -3.0129 | -1.4071 |
| | kontrol basis 1 bobot 150 | -2.25000* | .20830 | .000 | -3.0529 | -1.4471 |
| | kontrol basis 2 bobot 0 | -1.00000* | .20830 | .003 | -1.8029 | -.1971 |
| | kontrol basis 2 bobot 50 | -1.05000* | .20830 | .001 | -1.8529 | -.2471 |
| | kontrol basis 2 bobot 100 | -1.07667* | .20830 | .001 | -1.8796 | -.2738 |
| | kontrol basis 2 bobot 150 | -1.11333* | .20830 | .001 | -1.9162 | -.3104 |
| | kontrol basis 3 bobot 0 | -.48667 | .20830 | .776 | -1.2896 | .3162 |
| | kontrol basis 3 bobot 50 | -.53333 | .20830 | .629 | -1.3362 | .2696 |
| | kontrol basis 3 bobot 100 | -.58667 | .20830 | .450 | -1.3896 | .2162 |
| | kontrol basis 3 bobot 150 | -.61333 | .20830 | .368 | -1.4162 | .1896 |
| | formula 1 bobot 0 | -1.49333* | .20830 | .000 | -2.2962 | -.6904 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | formula 1 bobot 50 | -1.53000* | .20830 | .000 | -2.3329 | -.7271 |
| | | formula 1 bobot 100 | -1.59667* | .20830 | .000 | -2.3996 | -.7938 |
| | | formula 1 bobot 150 | -1.62667* | .20830 | .000 | -2.4296 | -.8238 |
| | | formula 2 bobot 0 | .12667 | .20830 | 1.000 | -.6762 | .9296 |
| | | formula 2 bobot 50 | .07333 | .20830 | 1.000 | -.7296 | .8762 |
| | | formula 2 bobot 100 | .02667 | .20830 | 1.000 | -.7762 | .8296 |
| | | formula 3 bobot 0 | .16667 | .20830 | 1.000 | -.6362 | .9696 |
| | | formula 3 bobot 50 | .14000 | .20830 | 1.000 | -.6629 | .9429 |
| | | formula 3 bobot 100 | .08000 | .20830 | 1.000 | -.7229 | .8829 |
| | | formula 3 bobot 150 | .07667 | .20830 | 1.000 | -.7262 | .8796 |
| formula bobot 0 | 3 | kontorl basis 1 bobot 0 | -2.31667* | .20830 | .000 | -3.1196 | -1.5138 |
| | | kontrol basis 1 bobot 50 | -2.34333* | .20830 | .000 | -3.1462 | -1.5404 |
| | | kontrol basis 1 bobot 100 | -2.37667* | .20830 | .000 | -3.1796 | -1.5738 |
| | | kontrol basis 1 bobot 150 | -2.41667* | .20830 | .000 | -3.2196 | -1.6138 |
| | | kontrol basis 2 bobot 0 | -1.16667* | .20830 | .000 | -1.9696 | -.3638 |
| | | kontrol basis 2 bobot 50 | -1.21667* | .20830 | .000 | -2.0196 | -.4138 |
| | | kontrol basis 2 bobot 100 | -1.24333* | .20830 | .000 | -2.0462 | -.4404 |
| | | kontrol basis 2 bobot 150 | -1.28000* | .20830 | .000 | -2.0829 | -.4771 |
| | | kontrol basis 3 bobot 0 | -.65333 | .20830 | .261 | -1.4562 | .1496 |
| | | kontrol basis 3 bobot 50 | -.70000 | .20830 | .165 | -1.5029 | .1029 |
| | | kontrol basis 3 bobot 100 | -.75333 | .20830 | .091 | -1.5562 | .0496 |
| | | kontrol basis 3 bobot 150 | -.78000 | .20830 | .066 | -1.5829 | .0229 |
| | | formula 1 bobot 0 | -1.66000* | .20830 | .000 | -2.4629 | -.8571 |
| | | formula 1 bobot 50 | -1.69667* | .20830 | .000 | -2.4996 | -.8938 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | formula 1 bobot 100 | -1.76333* | .20830 | .000 | -2.5662 | -.9604 |
| | | formula 1 bobot 150 | -1.79333* | .20830 | .000 | -2.5962 | -.9904 |
| | | formula 2 bobot 0 | -.04000 | .20830 | 1.000 | -.8429 | .7629 |
| | | formula 2 bobot 50 | -.09333 | .20830 | 1.000 | -.8962 | .7096 |
| | | formula 2 bobot 100 | -.14000 | .20830 | 1.000 | -.9429 | .6629 |
| | | formula 2 bobot 150 | -.16667 | .20830 | 1.000 | -.9696 | .6362 |
| | | formula 3 bobot 50 | -.02667 | .20830 | 1.000 | -.8296 | .7762 |
| | | formula 3 bobot 100 | -.08667 | .20830 | 1.000 | -.8896 | .7162 |
| | | formula 3 bobot 150 | -.09000 | .20830 | 1.000 | -.8929 | .7129 |
| formula bobot 50 | 3 | kontorl basis 1 bobot 0 | -2.29000* | .20830 | .000 | -3.0929 | -1.4871 |
| | | kontrol basis 1 bobot 50 | -2.31667* | .20830 | .000 | -3.1196 | -1.5138 |
| | | kontrol basis 1 bobot 100 | -2.35000* | .20830 | .000 | -3.1529 | -1.5471 |
| | | kontrol basis 1 bobot 150 | -2.39000* | .20830 | .000 | -3.1929 | -1.5871 |
| | | kontrol basis 2 bobot 0 | -1.14000* | .20830 | .000 | -1.9429 | -.3371 |
| | | kontrol basis 2 bobot 50 | -1.19000* | .20830 | .000 | -1.9929 | -.3871 |
| | | kontrol basis 2 bobot 100 | -1.21667* | .20830 | .000 | -2.0196 | -.4138 |
| | | kontrol basis 2 bobot 150 | -1.25333* | .20830 | .000 | -2.0562 | -.4504 |
| | | kontrol basis 3 bobot 0 | -.62667 | .20830 | .330 | -1.4296 | .1762 |
| | | kontrol basis 3 bobot 50 | -.67333 | .20830 | .216 | -1.4762 | .1296 |
| | | kontrol basis 3 bobot 100 | -.72667 | .20830 | .124 | -1.5296 | .0762 |
| | | kontrol basis 3 bobot 150 | -.75333 | .20830 | .091 | -1.5562 | .0496 |
| | | formula 1 bobot 0 | -1.63333* | .20830 | .000 | -2.4362 | -.8304 |
| | | formula 1 bobot 50 | -1.67000* | .20830 | .000 | -2.4729 | -.8671 |
| | | formula 1 bobot 100 | -1.73667* | .20830 | .000 | -2.5396 | -.9338 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | formula 1 bobot 150 | -1.76667* | .20830 | .000 | -2.5696 | -.9638 |
| | formula 2 bobot 0 | -.01333 | .20830 | 1.000 | -.8162 | .7896 |
| | formula 2 bobot 50 | -.06667 | .20830 | 1.000 | -.8696 | .7362 |
| | formula 2 bobot 100 | -.11333 | .20830 | 1.000 | -.9162 | .6896 |
| | formula 2 bobot 150 | -.14000 | .20830 | 1.000 | -.9429 | .6629 |
| | formula 3 bobot 0 | .02667 | .20830 | 1.000 | -.7762 | .8296 |
| | formula 3 bobot 100 | -.06000 | .20830 | 1.000 | -.8629 | .7429 |
| | formula 3 bobot 150 | -.06333 | .20830 | 1.000 | -.8662 | .7396 |
| formula 3 bobot 100 | kontorl basis 1 bobot 0 | -2.23000* | .20830 | .000 | -3.0329 | -1.4271 |
| | kontrol basis 1 bobot 50 | -2.25667* | .20830 | .000 | -3.0596 | -1.4538 |
| | kontrol basis 1 bobot 100 | -2.29000* | .20830 | .000 | -3.0929 | -1.4871 |
| | kontrol basis 1 bobot 150 | -2.33000* | .20830 | .000 | -3.1329 | -1.5271 |
| | kontrol basis 2 bobot 0 | -1.08000* | .20830 | .001 | -1.8829 | -.2771 |
| | kontrol basis 2 bobot 50 | -1.13000* | .20830 | .000 | -1.9329 | -.3271 |
| | kontrol basis 2 bobot 100 | -1.15667* | .20830 | .000 | -1.9596 | -.3538 |
| | kontrol basis 2 bobot 150 | -1.19333* | .20830 | .000 | -1.9962 | -.3904 |
| | kontrol basis 3 bobot 0 | -.56667 | .20830 | .516 | -1.3696 | .2362 |
| | kontrol basis 3 bobot 50 | -.61333 | .20830 | .368 | -1.4162 | .1896 |
| | kontrol basis 3 bobot 100 | -.66667 | .20830 | .230 | -1.4696 | .1362 |
| | kontrol basis 3 bobot 150 | -.69333 | .20830 | .176 | -1.4962 | .1096 |
| | formula 1 bobot 0 | -1.57333* | .20830 | .000 | -2.3762 | -.7704 |
| | formula 1 bobot 50 | -1.61000* | .20830 | .000 | -2.4129 | -.8071 |
| | formula 1 bobot 100 | -1.67667* | .20830 | .000 | -2.4796 | -.8738 |
| | formula 1 bobot 150 | -1.70667* | .20830 | .000 | -2.5096 | -.9038 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | formula 2 bobot 0 | .04667 | .20830 | 1.000 | -.7562 | .8496 |
| | | formula 2 bobot 50 | -.00667 | .20830 | 1.000 | -.8096 | .7962 |
| | | formula 2 bobot 100 | -.05333 | .20830 | 1.000 | -.8562 | .7496 |
| | | formula 2 bobot 150 | -.08000 | .20830 | 1.000 | -.8829 | .7229 |
| | | formula 3 bobot 0 | .08667 | .20830 | 1.000 | -.7162 | .8896 |
| | | formula 3 bobot 50 | .06000 | .20830 | 1.000 | -.7429 | .8629 |
| | | formula 3 bobot 150 | -.00333 | .20830 | 1.000 | -.8062 | .7996 |
| formula bobot 150 | 3 | kontorl basis 1 bobot 0 | -2.22667* | .20830 | .000 | -3.0296 | -1.4238 |
| | | kontrol basis 1 bobot 50 | -2.25333* | .20830 | .000 | -3.0562 | -1.4504 |
| | | kontrol basis 1 bobot 100 | -2.28667* | .20830 | .000 | -3.0896 | -1.4838 |
| | | kontrol basis 1 bobot 150 | -2.32667* | .20830 | .000 | -3.1296 | -1.5238 |
| | | kontrol basis 2 bobot 0 | -1.07667* | .20830 | .001 | -1.8796 | -.2738 |
| | | kontrol basis 2 bobot 50 | -1.12667* | .20830 | .000 | -1.9296 | -.3238 |
| | | kontrol basis 2 bobot 100 | -1.15333* | .20830 | .000 | -1.9562 | -.3504 |
| | | kontrol basis 2 bobot 150 | -1.19000* | .20830 | .000 | -1.9929 | -.3871 |
| | | kontrol basis 3 bobot 0 | -.56333 | .20830 | .527 | -1.3662 | .2396 |
| | | kontrol basis 3 bobot 50 | -.61000 | .20830 | .378 | -1.4129 | .1929 |
| | | kontrol basis 3 bobot 100 | -.66333 | .20830 | .237 | -1.4662 | .1396 |
| | | kontrol basis 3 bobot 150 | -.69000 | .20830 | .183 | -1.4929 | .1129 |
| | | formula 1 bobot 0 | -1.57000* | .20830 | .000 | -2.3729 | -.7671 |
| | | formula 1 bobot 50 | -1.60667* | .20830 | .000 | -2.4096 | -.8038 |
| | | formula 1 bobot 100 | -1.67333* | .20830 | .000 | -2.4762 | -.8704 |
| | | formula 1 bobot 150 | -1.70333* | .20830 | .000 | -2.5062 | -.9004 |
| | | formula 2 bobot 0 | .05000 | .20830 | 1.000 | -.7529 | .8529 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | formula 2 bobot 50 | -.00333 | .20830 | 1.000 | -.8062 | .7996 |
| | formula 2 bobot 100 | -.05000 | .20830 | 1.000 | -.8529 | .7529 |
| | formula 2 bobot 150 | -.07667 | .20830 | 1.000 | -.8796 | .7262 |
| | formula 3 bobot 0 | .09000 | .20830 | 1.000 | -.7129 | .8929 |
| | formula 3 bobot 50 | .06333 | .20830 | 1.000 | -.7396 | .8662 |
| | formula 3 bobot 100 | .00333 | .20830 | 1.000 | -.7996 | .8062 |

*. The mean difference is significant at the 0.05 level.

**DayaSebar**

Tukey HSD[a]

| Sampel | N | Subset for alpha = 0.05 | | | |
|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 |
| formula 3 bobot 0 | 3 | 5.2700 | | | |
| formula 3 bobot 50 | 3 | 5.2967 | | | |
| formula 2 bobot 0 | 3 | 5.3100 | | | |
| formula 3 bobot 100 | 3 | 5.3567 | | | |
| formula 3 bobot 150 | 3 | 5.3600 | | | |
| formula 2 bobot 50 | 3 | 5.3633 | | | |
| formula 2 bobot 100 | 3 | 5.4100 | | | |
| formula 2 bobot 150 | 3 | 5.4367 | | | |
| kontrol basis 3 bobot 0 | 3 | 5.9233 | 5.9233 | | |
| kontrol basis 3 bobot 50 | 3 | 5.9700 | 5.9700 | | |
| kontrol basis 3 bobot 100 | 3 | 6.0233 | 6.0233 | | |
| kontrol basis 3 bobot 150 | 3 | 6.0500 | 6.0500 | | |
| kontrol basis 2 bobot 0 | 3 | | 6.4367 | 6.4367 | |
| kontrol basis 2 bobot 50 | 3 | | 6.4867 | 6.4867 | |
| kontrol basis 2 bobot 100 | 3 | | 6.5133 | 6.5133 | |
| kontrol basis 2 bobot 150 | 3 | | 6.5500 | 6.5500 | |
| formula 1 bobot 0 | 3 | | | 6.9300 | 6.9300 |
| formula 1 bobot 50 | 3 | | | 6.9667 | 6.9667 |
| formula 1 bobot 100 | 3 | | | 7.0333 | 7.0333 |
| formula 1 bobot 150 | 3 | | | 7.0633 | 7.0633 |
| kontorl basis 1 bobot 0 | 3 | | | | 7.5867 |
| kontrol basis 1 bobot 50 | 3 | | | | 7.6133 |
| kontrol basis 1 bobot 100 | 3 | | | | 7.6467 |
| kontrol basis 1 bobot 150 | 3 | | | | 7.6867 |
| Sig. | | .066 | .330 | .330 | .088 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

## Lampiran 17. Data hasil uji mutu fisik daya lekat sediaan gel ekstrak umbi bawang dayak

**Tests of Normality**

| | sampel | Kolmogorov-Smirnov[a] | | | Shapiro-Wilk | | |
|---|---|---|---|---|---|---|---|
| | | Statistic | df | Sig. | Statistic | df | Sig. |
| DayaLekat | kontrol basis 1 | .219 | 3 | . | .987 | 3 | .780 |
| | kontrol basis 2 | .204 | 3 | . | .993 | 3 | .843 |
| | kontrol basis 3 | .349 | 3 | . | .832 | 3 | .194 |
| | formula 1 | .222 | 3 | . | .986 | 3 | .771 |
| | formula 2 | .375 | 3 | . | .774 | 3 | .054 |
| | formula 3 | .219 | 3 | . | .987 | 3 | .780 |

a. Lilliefors Significance Correction

**Test of Homogeneity of Variances**

DayaLekat

| Levene Statistic | df1 | df2 | Sig. |
|---|---|---|---|
| 2.715 | 5 | 12 | .073 |

**Multiple Comparisons**

Dependent Variable: DayaLekat

Tukey HSD

| (I) sampel | (J) sampel | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| kontrol basis 1 | kontrol basis 2 | -1.04000* | .24249 | .010 | -1.8545 | -.2255 |
| | kontrol basis 3 | -2.18333* | .24249 | .000 | -2.9978 | -1.3688 |
| | formula 1 | .05667 | .24249 | 1.000 | -.7578 | .8712 |
| | formula 2 | -.94000* | .24249 | .021 | -1.7545 | -.1255 |
| | formula 3 | -1.86000* | .24249 | .000 | -2.6745 | -1.0455 |
| kontrol basis 2 | kontrol basis 1 | 1.04000* | .24249 | .010 | .2255 | 1.8545 |
| | kontrol basis 3 | -1.14333* | .24249 | .005 | -1.9578 | -.3288 |
| | formula 1 | 1.09667* | .24249 | .007 | .2822 | 1.9112 |
| | formula 2 | .10000 | .24249 | .998 | -.7145 | .9145 |
| | formula 3 | -.82000* | .24249 | .048 | -1.6345 | -.0055 |
| kontrol basis 3 | kontrol basis 1 | 2.18333* | .24249 | .000 | 1.3688 | 2.9978 |
| | kontrol basis 2 | 1.14333* | .24249 | .005 | .3288 | 1.9578 |
| | formula 1 | 2.24000* | .24249 | .000 | 1.4255 | 3.0545 |
| | formula 2 | 1.24333* | .24249 | .003 | .4288 | 2.0578 |
| | formula 3 | .32333 | .24249 | .763 | -.4912 | 1.1378 |
| formula 1 | kontrol basis 1 | -.05667 | .24249 | 1.000 | -.8712 | .7578 |
| | kontrol basis 2 | -1.09667* | .24249 | .007 | -1.9112 | -.2822 |
| | kontrol basis 3 | -2.24000* | .24249 | .000 | -3.0545 | -1.4255 |
| | formula 2 | -.99667* | .24249 | .014 | -1.8112 | -.1822 |
| | formula 3 | -1.91667* | .24249 | .000 | -2.7312 | -1.1022 |
| formula 2 | kontrol basis 1 | .94000* | .24249 | .021 | .1255 | 1.7545 |
| | kontrol basis 2 | -.10000 | .24249 | .998 | -.9145 | .7145 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | kontrol basis 3 | -1.24333* | .24249 | .003 | -2.0578 | -.4288 |
| | formula 1 | .99667* | .24249 | .014 | .1822 | 1.8112 |
| | formula 3 | -.92000* | .24249 | .024 | -1.7345 | -.1055 |
| | kontrol basis 1 | 1.86000* | .24249 | .000 | 1.0455 | 2.6745 |
| | kontrol basis 2 | .82000* | .24249 | .048 | .0055 | 1.6345 |
| formula 3 | kontrol basis 3 | -.32333 | .24249 | .763 | -1.1378 | .4912 |
| | formula 1 | 1.91667* | .24249 | .000 | 1.1022 | 2.7312 |
| | formula 2 | .92000* | .24249 | .024 | .1055 | 1.7345 |

*. The mean difference is significant at the 0.05 level.

**DayaLekat**

Tukey HSD[a]

| sampel | N | Subset for alpha = 0.05 | | |
|---|---|---|---|---|
| | | 1 | 2 | 3 |
| formula 1 | 3 | 3.6867 | | |
| kontrol basis 1 | 3 | 3.7433 | | |
| formula 2 | 3 | | 4.6833 | |
| kontrol basis 2 | 3 | | 4.7833 | |
| formula 3 | 3 | | | 5.6033 |
| kontrol basis 3 | 3 | | | 5.9267 |
| Sig. | | 1.000 | .998 | .763 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

**Lampiran 18. Data hasil uji stabilitas pH sediaan gel dengan metode paired *T test***

**Paired Samples Statistics**

| | | Mean | N | Std. Deviation | Std. Error Mean |
|---|---|---|---|---|---|
| Pair 1 | PHSebelumCycling | 5.0306 | 18 | .43507 | .10255 |
| | PHSesudahCycling | 4.8033 | 18 | .28855 | .06801 |

**Paired Samples Correlations**

| | | | N | Correlation | Sig. |
|---|---|---|---|---|---|
| Pair 1 | PHSebelumCycling | & | 18 | .982 | .000 |
| | PHSesudahCycling | | | | |

**Paired Samples Test**

| | | Paired Differences | | | | | t | df | Sig. (2-tailed) |
|---|---|---|---|---|---|---|---|---|---|
| | | Mean | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference | | | | |
| | | | | | Lower | Upper | | | |
| Pair 1 | PHSebelumCycling - PHSesudahCycling | .22722 | .16091 | .03793 | .14720 | .30724 | 5.991 | 17 | .000 |

**Lampiran 19. Data hasil uji viskositas sediaan gel dengan metode *paired T test***

**Paired Samples Statistics**

| | | Mean | N | Std. Deviation | Std. Error Mean |
|---|---|---|---|---|---|
| Pair 1 | sebelumcycling | 311.5000 | 6 | 119.03571 | 48.59612 |
| | sesudahcycling | 273.2233 | 6 | 102.71771 | 41.93433 |

**Paired Samples Correlations**

| | | N | Correlation | Sig. |
|---|---|---|---|---|
| Pair 1 | sebelumcycling & sesudahcycling | 6 | .977 | .001 |

**Paired Samples Test**

| | | Paired Differences | | | | | t | df | Sig. (2-tailed) |
|---|---|---|---|---|---|---|---|---|---|
| | | Mean | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference | | | | |
| | | | | | Lower | Upper | | | |
| Pair 1 | ViskositasSebelumCycling - ViskositasSesudahCycling | 38.27667 | 28.73033 | 11.72911 | 8.12604 | 68.42730 | 3.263 | 5 | .022 |

**Lampiran 20. Data hasil uji stabilitas daya sebar sediaan gel dengan metode *paired T test***

**Paired Samples Statistics**

| | | Mean | N | Std. Deviation | Std. Error Mean |
|---|---|---|---|---|---|
| Pair 1 | SebelumCycling | 6.3035 | 72 | .86984 | .10251 |
| | SesudahCycling | 6.3263 | 72 | .86991 | .10252 |

**Paired Samples Correlations**

| | | | N | Correlation | Sig. |
|---|---|---|---|---|---|
| Pair 1 | SebelumCycling & SesudahCycling | | 72 | 1.000 | .000 |

**Paired Samples Test**

| | | Paired Differences | | | | | t | df | Sig. (2-tailed) |
|---|---|---|---|---|---|---|---|---|---|
| | | Mean | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference | | | | |
| | | | | | Lower | Upper | | | |
| Pair 1 | SebelumCycling - SesudahCycling | -.02278 | .00953 | .00112 | -.02054 | -.02502 | -20.287 | 71 | .000 |

## Lampiran 21. Data hasil uji stabilitas daya lekat sediaan gel dengan metode *paired T test*

**Paired Samples Statistics**

| | | Mean | N | Std. Deviation | Std. Error Mean |
|---|---|---|---|---|---|
| Pair 1 | DayaLekatSebelumCycling | 4.5717 | 6 | 1.00306 | .40950 |
| | DayaLekatSesudahCycling | 4.2233 | 6 | .96359 | .39338 |

**Paired Samples Correlations**

| | | N | Correlation | Sig. |
|---|---|---|---|---|
| Pair 1 | DayaLekatSebelumCycling & DayaLekatSesudahCycling | 6 | .765 | .076 |

**Paired Samples Test**

| | | Paired Differences | | | | | t | df | Sig. (2-tailed) |
|---|---|---|---|---|---|---|---|---|---|
| | | Mean | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference | | | | |
| | | | | | Lower | Upper | | | |
| Pair 1 | DayaLekatSebelumCycling - DayaLekatSesudahCycling | .34833 | .67458 | .27540 | -.35959 | 1.05626 | 1.265 | 5 | .262 |

## Lampiran 22. Hasil uji statistik aktivitas antibakteri ekstrak umbi bawang dayak terhadap *Staphylococcus aureus*

**Tests of Normality**

| | Konsentrasi_ekstrak | Kolmogorov-Smirnov[a] | | | Shapiro-Wilk | | |
|---|---|---|---|---|---|---|---|
| | | Statistic | df | Sig. | Statistic | df | Sig. |
| Diameter | 1% | .187 | 3 | . | .998 | 3 | .915 |
| | 5% | .204 | 3 | . | .993 | 3 | .843 |
| | 10% | .204 | 3 | . | .993 | 3 | .843 |
| | 15% | .175 | 3 | . | 1.000 | 3 | 1.000 |
| | Kontrol positif | .235 | 3 | . | .978 | 3 | .715 |
| | Kontrol negatif | . | 3 | . | . | 3 | . |

a. Lilliefors Significance Correction

**Tests of Homogeneity of Variances**

| | | Levene Statistic | df1 | df2 | Sig. |
|---|---|---|---|---|---|
| Diameter | Based on Mean | 1.467 | 5 | 12 | .271 |
| | Based on Median | 1.053 | 5 | 12 | .432 |
| | Based on Median and with adjusted df | 1.053 | 5 | 7.363 | .455 |
| | Based on trimmed mean | 1.442 | 5 | 12 | .279 |

**ANOVA**

Diameter

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 1124.192 | 5 | 224.838 | 1328.265 | <.001 |
| Within Groups | 2.031 | 12 | .169 | | |
| Total | 1126.223 | 17 | | | |

**Multiple Comparisons**

Dependent Variable: Diameter
Tukey HSD

| (I) Konsentrasi_ekstrak | (J) Konsentrasi_ekstrak | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval Lower Bound | 95% Confidence Interval Upper Bound |
|---|---|---|---|---|---|---|
| 1% | 5% | -3.33333* | .33593 | <.001 | -4.4617 | -2.2050 |
| | 10% | -6.33333* | .33593 | <.001 | -7.4617 | -5.2050 |
| | 15% | -7.66667* | .33593 | <.001 | -8.7950 | -6.5383 |
| | Kontrol positif | -13.91000* | .33593 | <.001 | -15.0384 | -12.7816 |
| | Kontrol negatif | 11.63333* | .33593 | <.001 | 10.5050 | 12.7617 |
| 5% | 1% | 3.33333* | .33593 | <.001 | 2.2050 | 4.4617 |
| | 10% | -3.00000* | .33593 | <.001 | -4.1284 | -1.8716 |
| | 15% | -4.33333* | .33593 | <.001 | -5.4617 | -3.2050 |
| | Kontrol positif | -10.57667* | .33593 | <.001 | -11.7050 | -9.4483 |
| | Kontrol negatif | 14.96667* | .33593 | <.001 | 13.8383 | 16.0950 |
| 10% | 1% | 6.33333* | .33593 | <.001 | 5.2050 | 7.4617 |
| | 5% | 3.00000* | .33593 | <.001 | 1.8716 | 4.1284 |
| | 15% | -1.33333* | .33593 | .018 | -2.4617 | -.2050 |
| | Kontrol positif | -7.57667* | .33593 | <.001 | -8.7050 | -6.4483 |
| | Kontrol negatif | 17.96667* | .33593 | <.001 | 16.8383 | 19.0950 |
| 15% | 1% | 7.66667* | .33593 | <.001 | 6.5383 | 8.7950 |
| | 5% | 4.33333* | .33593 | <.001 | 3.2050 | 5.4617 |
| | 10% | 1.33333* | .33593 | .018 | .2050 | 2.4617 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Kontrol positif | -6.24333* | .33593 | <.001 | -7.3717 | -5.1150 |
| | Kontrol negatif | 19.30000* | .33593 | <.001 | 18.1716 | 20.4284 |
| Kontrol positif | 1% | 13.91000* | .33593 | <.001 | 12.7816 | 15.0384 |
| | 5% | 10.57667* | .33593 | <.001 | 9.4483 | 11.7050 |
| | 10% | 7.57667* | .33593 | <.001 | 6.4483 | 8.7050 |
| | 15% | 6.24333* | .33593 | <.001 | 5.1150 | 7.3717 |
| | Kontrol negatif | 25.54333* | .33593 | <.001 | 24.4150 | 26.6717 |
| Kontrol negatif | 1% | -11.63333* | .33593 | <.001 | -12.7617 | -10.5050 |
| | 5% | -14.96667* | .33593 | <.001 | -16.0950 | -13.8383 |
| | 10% | -17.96667* | .33593 | <.001 | -19.0950 | -16.8383 |
| | 15% | -19.30000* | .33593 | <.001 | -20.4284 | -18.1716 |
| | Kontrol positif | -25.54333* | .33593 | <.001 | -26.6717 | -24.4150 |

*. The mean difference is significant at the 0.05 level.

**Diameter**

Tukey HSD[a]

| | | Subset for alpha = 0.05 | | | | | |
|---|---|---|---|---|---|---|---|
| Konsentrasi_ekstrak | N | 1 | 2 | 3 | 4 | 5 | 6 |
| Kontrol negatif | 3 | .0000 | | | | | |
| 1% | 3 | | 11.6333 | | | | |
| 5% | 3 | | | 14.9667 | | | |
| 10% | 3 | | | | 17.9667 | | |
| 15% | 3 | | | | | 19.3000 | |
| Kontrol positif | 3 | | | | | | 25.5433 |
| Sig. | | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

**Lampiran 23. Hasil uji statistik aktivitas antibakteri sediaan gel ekstrak umbi bawang dayak terhadap *Staphylococcus aureus***

**Tests of Normality**

| | | Kolmogorov-Smirnov[a] | | | Shapiro-Wilk | | |
|---|---|---|---|---|---|---|---|
| | Diameter | Statistic | df | Sig. | Statistic | df | Sig. |
| Konsentrasi_ekstrak | Kontrol basis 1 | . | 3 | . | . | 3 | . |
| | Kontrol basis 2 | . | 3 | . | . | 3 | . |
| | Kontrol basis 3 | . | 3 | . | . | 3 | . |
| | Formula 1 | .238 | 3 | . | .976 | 3 | .702 |
| | Formula 2 | .337 | 3 | . | .855 | 3 | .253 |
| | Formula 3 | .175 | 3 | . | 1.000 | 3 | 1.000 |
| | Kontrol positif | .276 | 3 | . | .942 | 3 | .537 |

a. Lilliefors Significance Correction

**Test of Homogeneity of Variances**

| | | Levene Statistic | df1 | df2 | Sig. |
|---|---|---|---|---|---|
| Konsentrasi_ekstrak | Based on Mean | 5.174 | 6 | 14 | .005 |
| | Based on Median | 1.576 | 6 | 14 | .226 |
| | Based on Median and with adjusted df | 1.576 | 6 | 5.753 | .302 |
| | Based on trimmed mean | 4.829 | 6 | 14 | .007 |

**ANOVA**

Konsentrasi_ekstrak

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 2053.106 | 6 | 342.184 | 4037.006 | .000 |
| Within Groups | 1.187 | 14 | .085 | | |
| Total | 2054.292 | 20 | | | |

**Multiple Comparisons**

Dependent Variable: Konsentrasi_ekstrak

Tukey HSD

| (I) Diameter | (J) Diameter | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| Kontrol basis 1 | Kontrol basis 2 | .00000 | .23771 | 1.000 | -.8117 | .8117 |
| | Kontrol basis 3 | .00000 | .23771 | 1.000 | -.8117 | .8117 |
| | Formula 1 | -17.90000* | .23771 | .000 | -18.7117 | -17.0883 |
| | Formula 2 | -17.73333* | .23771 | .000 | -18.5450 | -16.9216 |
| | Formula 3 | -17.60000* | .23771 | .000 | -18.4117 | -16.7883 |
| | Kontrol positif | -24.60000* | .23771 | .000 | -25.4117 | -23.7883 |
| Kontrol basis 2 | Kontrol basis 1 | .00000 | .23771 | 1.000 | -.8117 | .8117 |
| | Kontrol basis 3 | .00000 | .23771 | 1.000 | -.8117 | .8117 |
| | Formula 1 | -17.90000* | .23771 | .000 | -18.7117 | -17.0883 |
| | Formula 2 | -17.73333* | .23771 | .000 | -18.5450 | -16.9216 |
| | Formula 3 | -17.60000* | .23771 | .000 | -18.4117 | -16.7883 |
| | Kontrol positif | -24.60000* | .23771 | .000 | -25.4117 | -23.7883 |
| Kontrol basis 3 | Kontrol basis 1 | .00000 | .23771 | 1.000 | -.8117 | .8117 |
| | Kontrol basis 2 | .00000 | .23771 | 1.000 | -.8117 | .8117 |
| | Formula 1 | -17.90000* | .23771 | .000 | -18.7117 | -17.0883 |
| | Formula 2 | -17.73333* | .23771 | .000 | -18.5450 | -16.9216 |
| | Formula 3 | -17.60000* | .23771 | .000 | -18.4117 | -16.7883 |
| | Kontrol positif | -24.60000* | .23771 | .000 | -25.4117 | -23.7883 |
| Formula 1 | Kontrol basis 1 | 17.90000* | .23771 | .000 | 17.0883 | 18.7117 |
| | Kontrol basis 2 | 17.90000* | .23771 | .000 | 17.0883 | 18.7117 |
| | Kontrol basis 3 | 17.90000* | .23771 | .000 | 17.0883 | 18.7117 |
| | Formula 2 | .16667 | .23771 | .990 | -.6450 | .9784 |
| | Formula 3 | .30000 | .23771 | .858 | -.5117 | 1.1117 |
| | Kontrol positif | -6.70000* | .23771 | .000 | -7.5117 | -5.8883 |
| Formula 2 | Kontrol basis 1 | 17.73333* | .23771 | .000 | 16.9216 | 18.5450 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Kontrol basis 2 | 17.73333* | .23771 | .000 | 16.9216 | 18.5450 |
| | Kontrol basis 3 | 17.73333* | .23771 | .000 | 16.9216 | 18.5450 |
| | Formula 1 | -.16667 | .23771 | .990 | -.9784 | .6450 |
| | Formula 3 | .13333 | .23771 | .997 | -.6784 | .9450 |
| | Kontrol positif | -6.86667* | .23771 | .000 | -7.6784 | -6.0550 |
| Formula 3 | Kontrol basis 1 | 17.60000* | .23771 | .000 | 16.7883 | 18.4117 |
| | Kontrol basis 2 | 17.60000* | .23771 | .000 | 16.7883 | 18.4117 |
| | Kontrol basis 3 | 17.60000* | .23771 | .000 | 16.7883 | 18.4117 |
| | Formula 1 | -.30000 | .23771 | .858 | -1.1117 | .5117 |
| | Formula 2 | -.13333 | .23771 | .997 | -.9450 | .6784 |
| | Kontrol positif | -7.00000* | .23771 | .000 | -7.8117 | -6.1883 |
| Kontrol positif | Kontrol basis 1 | 24.60000* | .23771 | .000 | 23.7883 | 25.4117 |
| | Kontrol basis 2 | 24.60000* | .23771 | .000 | 23.7883 | 25.4117 |
| | Kontrol basis 3 | 24.60000* | .23771 | .000 | 23.7883 | 25.4117 |
| | Formula 1 | 6.70000* | .23771 | .000 | 5.8883 | 7.5117 |
| | Formula 2 | 6.86667* | .23771 | .000 | 6.0550 | 7.6784 |
| | Formula 3 | 7.00000* | .23771 | .000 | 6.1883 | 7.8117 |

*. The mean difference is significant at the 0.05 level.

**Konsentrasi_ekstrak**

Tukey HSD[a]

| Diameter | N | Subset for alpha = 0.05 | | |
|---|---|---|---|---|
| | | 1 | 2 | 3 |
| Kontrol basis 1 | 3 | .0000 | | |
| Kontrol basis 2 | 3 | .0000 | | |
| Kontrol basis 3 | 3 | .0000 | | |
| Formula 3 | 3 | | 17.6000 | |
| Formula 2 | 3 | | 17.7333 | |
| Formula 1 | 3 | | 17.9000 | |
| Kontrol positif | 3 | | | 24.6000 |
| Sig. | | 1.000 | .858 | 1.000 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.